

oneAPI State of the Union

Scott Apeland
Senior Director
Developer Ecosystem Program

oneAPI DevSummit



Welcome

oneAPI Ecosystem



CoEs



oneAPI for Everyone



oneAPI Innovator Program



István Z Reguly
oneAPI Innovator



Abhishek Nandy



Kazi Haque

Student Ambassadors for oneAPI



Harvey Johnson
oneAPI Student
Ambassador



Joshua Shiells
oneAPI Student
Ambassador

oneAPI for Everyone



Innovator & Certified Instructor Program



Yinkui Zhang - Well-known operating system kernel expert and author of "Software Debugging".



Professor Weidong Zhao from Fudan University



Yongwei Wu - Chief technical consultant at Boolan and Well-known C++ expert



Prof. Yuejian Fang, School of Software and Microelectronics Peking University

Student Ambassadors Program



Shiyang Li & Yuting Peng from Nankai University



Jiacheng Wan & Ce Sun from University of Science & Technology of China



Centre of Excellence



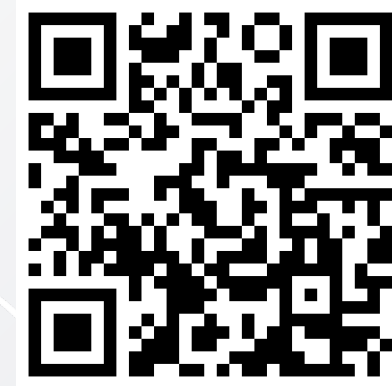
Prof. Yuejian Fang, School of Software and Microelectronics Peking University

What's New?

SYCLomatic

- Open source tool to help migrate CUDA code to oneAPI/SYCL
- 2832 contributors
- Just added support for 100+ CUDA APIs
- Working on SYCL 2020 support

<https://github.com/oneapi-src/SYCLomatic>





The graphic features a dark blue background with a futuristic cityscape of glowing blue and purple buildings on a circular platform. To the right, a large, multi-colored cloud shape contains the text 'intel Developer Cloud' and 'cloud.intel.com'. Below the cloud, it says 'access to our latest accelerated hardware and software'. The background is filled with various digital icons like a cloud, code, a fingerprint, and a bar chart.

intel
Developer Cloud
cloud.intel.com
access to our latest
accelerated hardware and software

Latest Intel CPUs &
GPUs

Accelerated
Development

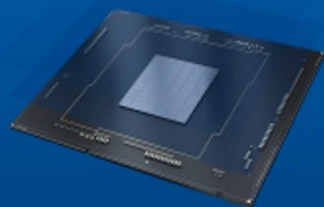
Optimization
Support

Intel® Developer Cloud

cloud.intel.com



Small Model Inferencing



Small VM

Intel® Xeon® Scalable Processors

Up to 7B Parameters

Coming November

Small Model Inferencing & Fine-Tuning



Medium or large VM

Intel® Xeon® Scalable Processors or Intel GPUs

Up to 20B Parameters

Coming November

Large Model Inferencing Small Model Inferencing & Fine-Tuning



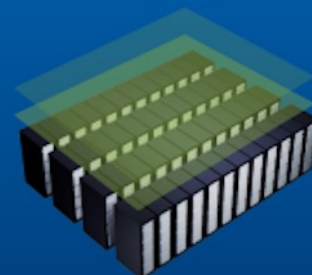
Full System

Intel® Gaudi 2 or Intel GPU system

Up to 50B Parameters

Available Today

Large Model Training



Full Cluster

Multiple Intel® Gaudi 2 systems

Hundreds of Billions Parameters

Coming Q4'23

intel.

liftoff

Helping Early-Stage AI Startups Build AI Solutions



Community Inspired

Linux Foundation announced the formation of the

Unified Acceleration Foundation



Get Inspired!

Awesome

oneAPI

Industry and community showcase
of projects

awesome-oneapi

An Awesome list of oneAPI projects

A curated list of awesome oneAPI and SYCL projects for solutions across industry and community. Inspired by [awesome-machine-learning](#).

🔗 What is oneAPI?

oneAPI is an open, cross-industry, standards-based, unified, multiarchitecture, multi-vendor programming model that delivers a common developer experience across accelerator architectures – for faster application performance, more productivity, and greater innovation. See, <https://oneapi.io/> for more information.

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oneAPI Community Programs

Student
Ambassadors



Innovator
Program



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Start-ups



Educator
Program



Join our community!

Thank You