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創新技術 AI加速

Bring Al Everywhere

蔡佩伶Evelyn Tsai















Enrich

workplace

collaboration







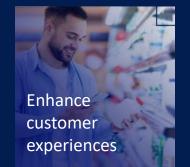


Create new products and

services











Scalable

Build, optimize and run Al



AI PC

Light inference

broadest AI SW ecosystem



Flexible, edge node reference architectures



Data Center & Cloud AI

Open, scalable systems & reference architecture



Node Fine-tuning, inference



Super Cluster Training, Tuning, Peak Inf.



Cluster Light Training, tuning, Peak Inf.



Mega Cluster Large Scale Training & Inference

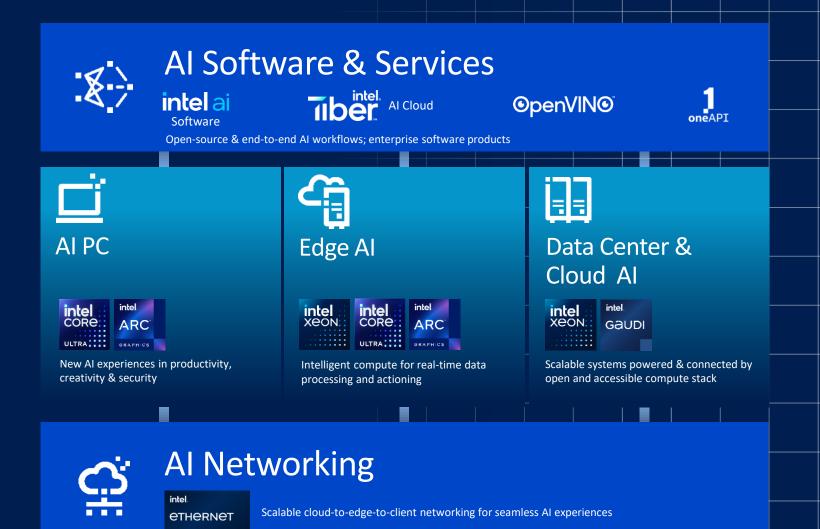


at any scale



Intel® Al Portfolio

Scalable AI computing platforms









New AI PC Era Powered by Intel® Core™ Ultra Processors

The Biggest Architecture Update In 40 Years Driving the Future of Computing at All Organizations

Creator: Photo & video search & editing

Faster, more natural filters, higher quality previews & faster export times with automated, quicker searches.



Collaboration/streaming

New Al capabilities for next-gen video conferencing, streaming and collaboration, preserving battery life.

Mainstream gaming

New Al features for in-game, 3D animation for added realism, transcription & chat translation.



Al on the PC

Productivity

Al assistants for writing, creating, coding and offline features, like text & grammar prediction.



Accessibility

Al-assisted audio-visual capabilities for diverse user needs, making it easier to create and be productive on the PC.

Creator: Text to image

New AI effects & features for creating images with just a few descriptive words – marketing, advertising, design.

With over 100 ISVs and 300 AI features, the Intel® Core™ Ultra offers a comprehensive AI PC experience with improved power & performance vs. prior generation¹

"Eliminating the mundane"

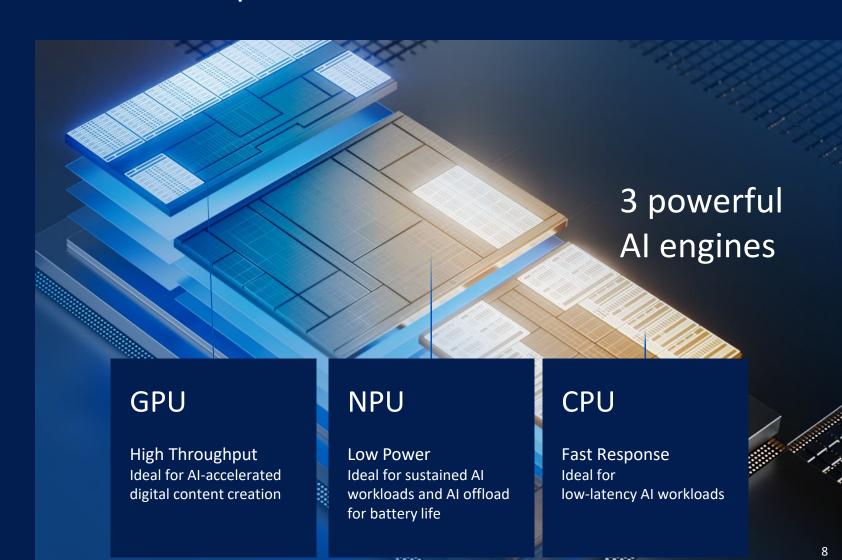
1. Intel Dec. 14, 2023, AI Everywhere event news release. Al features may require software purchase, subscription or enablement by a software or platform provider, or may have specific configuration or compatibility requirements. Details at intel.com/AIPC. Results may vary.

Boost worker productivity with new Al software and features on PCs with Intel[®] Core™ Ultra processors

Performance for AI and a large ecosystem of apps

300 Al-enabled features from 100+ software vendors





AIPC Acceleration Program

Accelerating adoption of AI with global ecosystem

Enabling Al

intel.com/aipc

100M+

PCs through 2025

100+

>300

Al-accelerated features

3X

Al apps and frameworks than the competition































































Introducing Intel® Core™ Ultra Processors for Business Users

Up to

47%

better office app productivity vs 3-year-old PC¹ Up to

36%

processor power reduction gen-over-gen for video conferencing² Up to

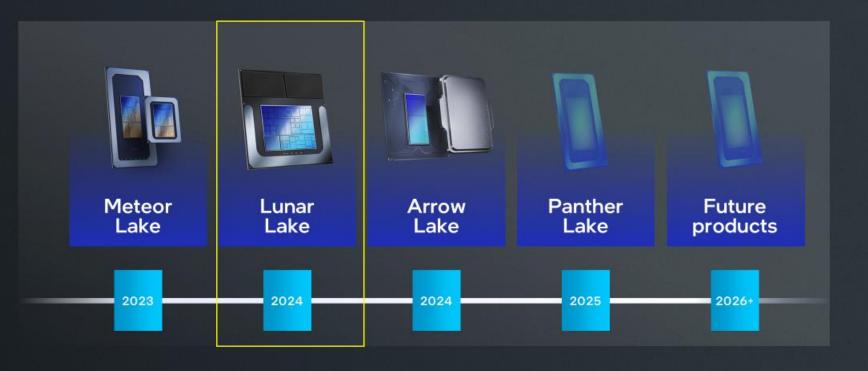
2.2x

Al performance gen-over-gen for video editing²

See www.intel.com/PerformanceIndex for workloads and configurations. Results may vary.

^{1.} Intel® Core™ Ultra 7 165H vs. 11th Gen Intel® Core™ i7-1185G7
2. Intel® Core™ Ultra 7 165U vs. 13th Gen Intel® Core™ i7-1365U

Our Al Client Roadmap



intel.



Lunar Lake

Unmatched Al Compute

Up to 120 platform TOPS across CPU, GPU, and NPU





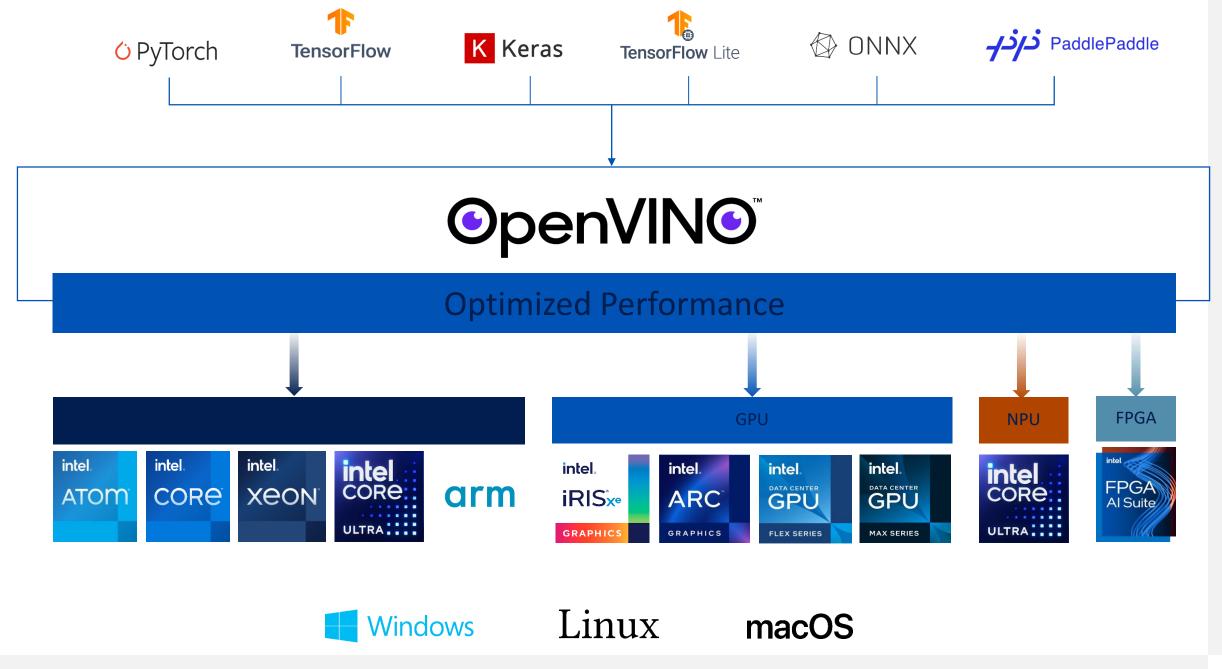
MODEL

2 OPTIMIZE 3



OpenVINO

intel.



OpenVINO™

What's New in the 2024.0 Release?



Model

TensorFlow sentence encoding models with OpenVINO™ Tokenizers

New and noteworthy models validated: Mistral and StableLM-3b

Mixture of Experts (MoE) support

JavaScript API



Optimize

Activation-aware Weight Quantization

KV-cache support

More OpenVINO features integrated with Hugging Face ecosystem, with direct model compression in INT4 format



Deploy

ARM threading library, multi-core ARM platforms support

NPU plugin in the PIP package

OVMS for multi-batch inputs and Retrieval Augmented Generation (RAG)

