• 02:00PM - 02:05PM: Welcome and event overview (Jay, CK) 02:05PM - 02:10PM: NCHC opening (王順泰組長@NCHC) 02:10PM – 02:15PM: Hackathon team opening (Bharat) 02:15PM - 03:00PM: Round table self-introduction (Team & Mentor). Kick-off Meeting 3 mins for each team lead (Nov 16) 1 mins for two mentors per team Virtual 03:00PM - 03:05PM: 5 mins break 03:05PM - 03:15PM: Introduction to computing resources (Kuan-Ting) 03:15PM - 04:00PM: Introduction to Nsight Analysis Tools (Leo Chen) 04:00PM - 04:30PM: breakout rooms (Team & Mentor) Day 1 02:00PM - 03:00PM: Scrum #1 (5 mins presentation per team) (November 23) Virtual Day 2 02:00PM - 03:00PM: Scrum #2 (5 mins presentation per team) (November 30) Virtual 10:00 AM - 10:30 PM: Welcome and event description 10:30 AM - 12:00 PM: Final presentation (12 mins presentation +3 minutes QA per team) Day 3 12:00 PM - 01:30 PM: Lunch time (Dec 07) 01:30 PM - 03:00 PM: Final presentation (12 mins presentation +3 minutes QA per team) In-Person 03:00 PM - 04:00 PM: Wrap-up session







Total presentation time is 5 minutes = 4 minutes presentation + 1 minutes QA or any inputs.

Team Name



NVIDIA GH200 Grace Hopper Superchip

Built for the New Era of Al Supercomputing

CPU to GPU Bandwidth

900GB/S

NVLink-C2C

GPU Memory Bandwidth
4.9TB/s
HBM3e

Energy Efficiency

52X

MILC Efficiency vs 2S x86 CPUs

QFT Quantum Simulation

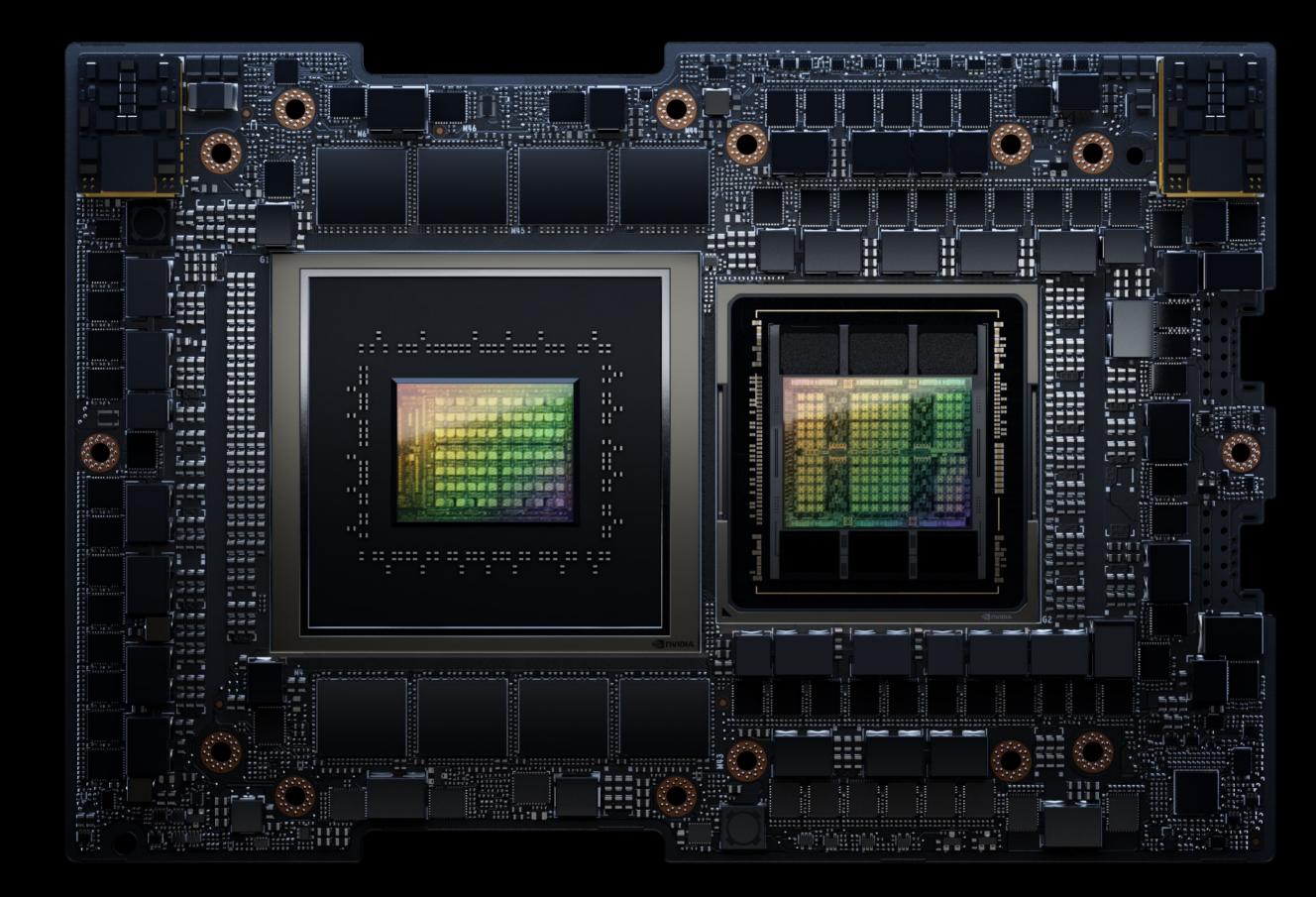
90 X

Performance vs 2S x86 CPUs

Llama 2 70B Inference

1 OOX

Performance vs 2S x86 CPUs



624GB High-Speed Memory | 4 PF Al Perf | 72 Arm Cores



Now in Full Production – NVIDIA GH200 Grace Hopper Superchip

Built for the New Era of Al Supercomputing

Most versatile compute

Best performance across CPU, GPU or memory intensive applications

Easy to deploy and scale out

1 CPU: 1 GPU node simple to manage and schedule for for HPC, enterprise, and cloud

Best Perf/TCO for diverse workloads

Maximize data center utilization and power efficiency

Now Available in Launchpad

Available Starting Early December; Sign-up Today



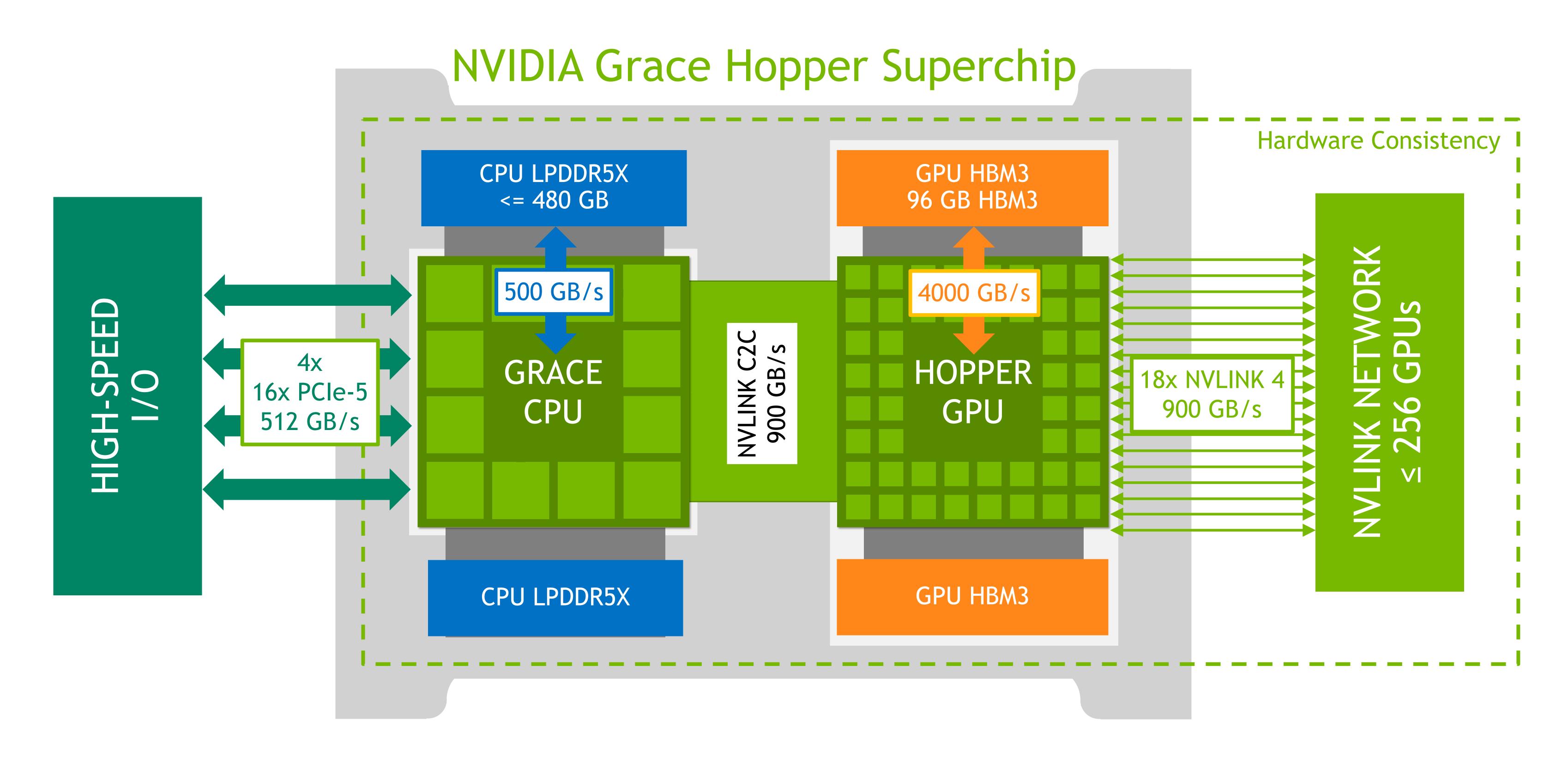




Shipping Globally with Early Access from CSPs

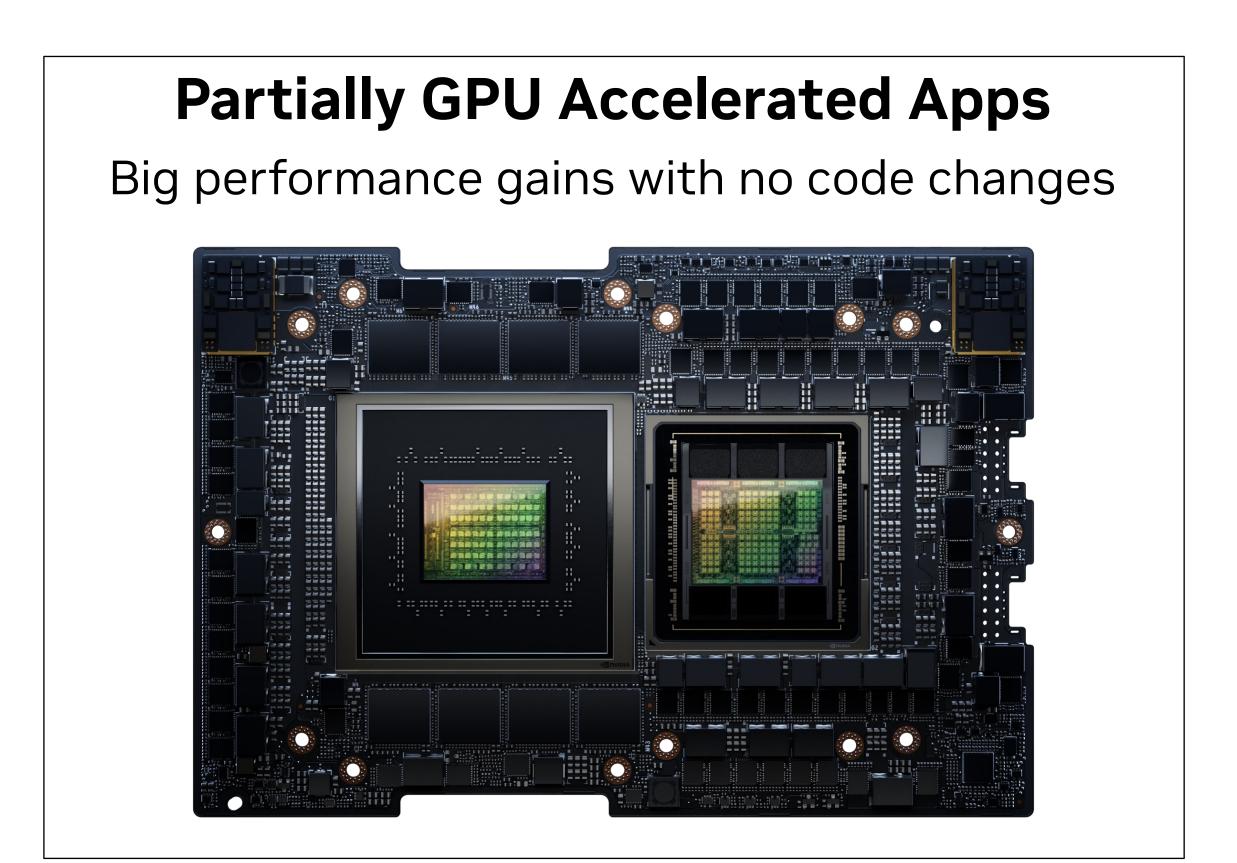
Grace Hopper Superchip

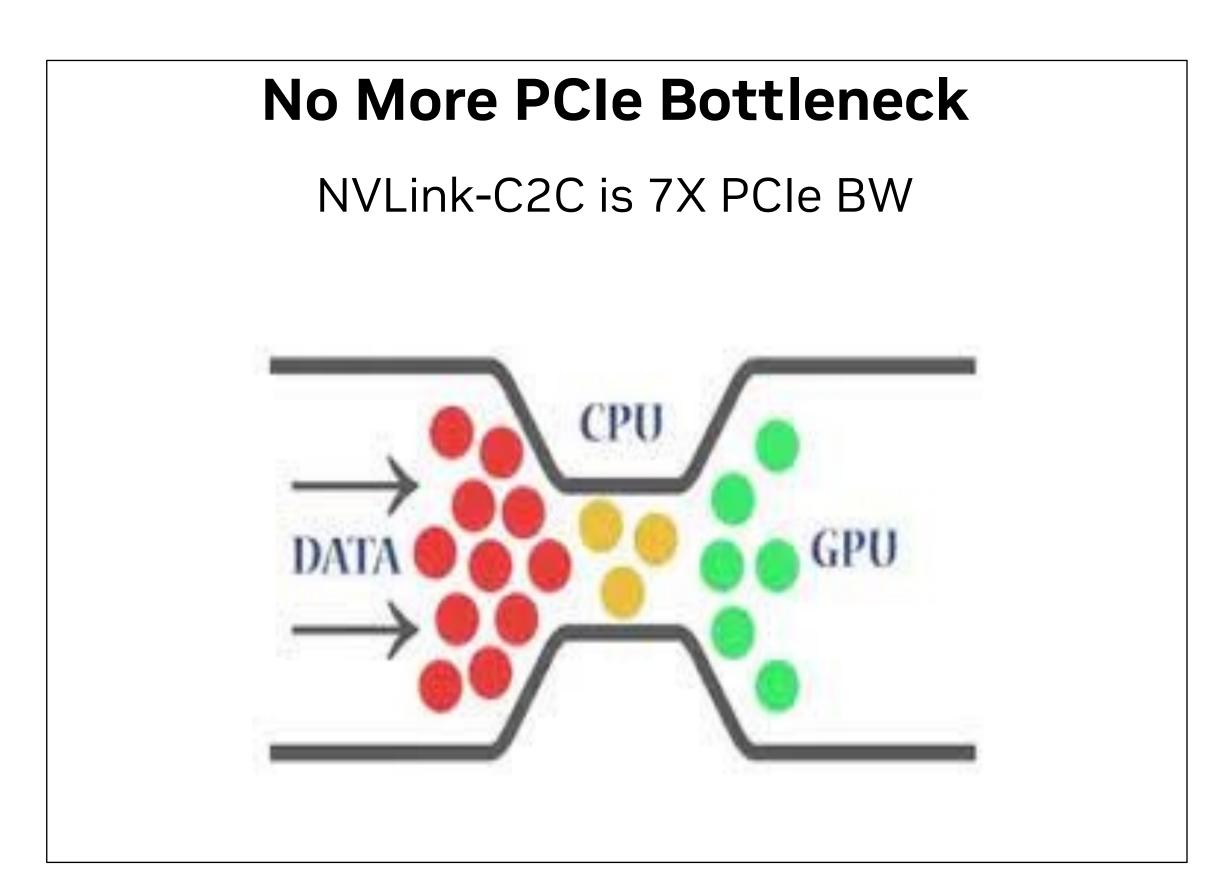
GPU can access CPU memory at CPU memory speeds

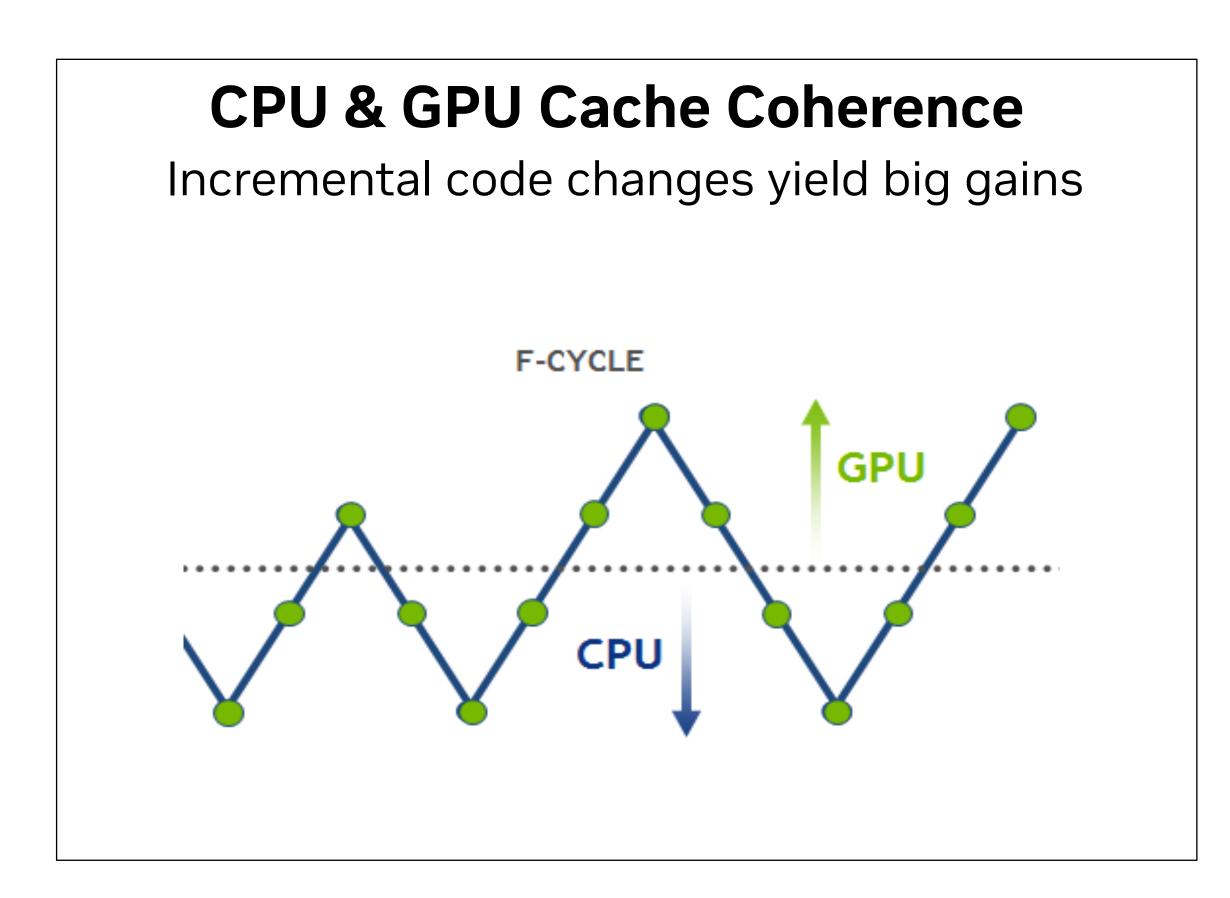


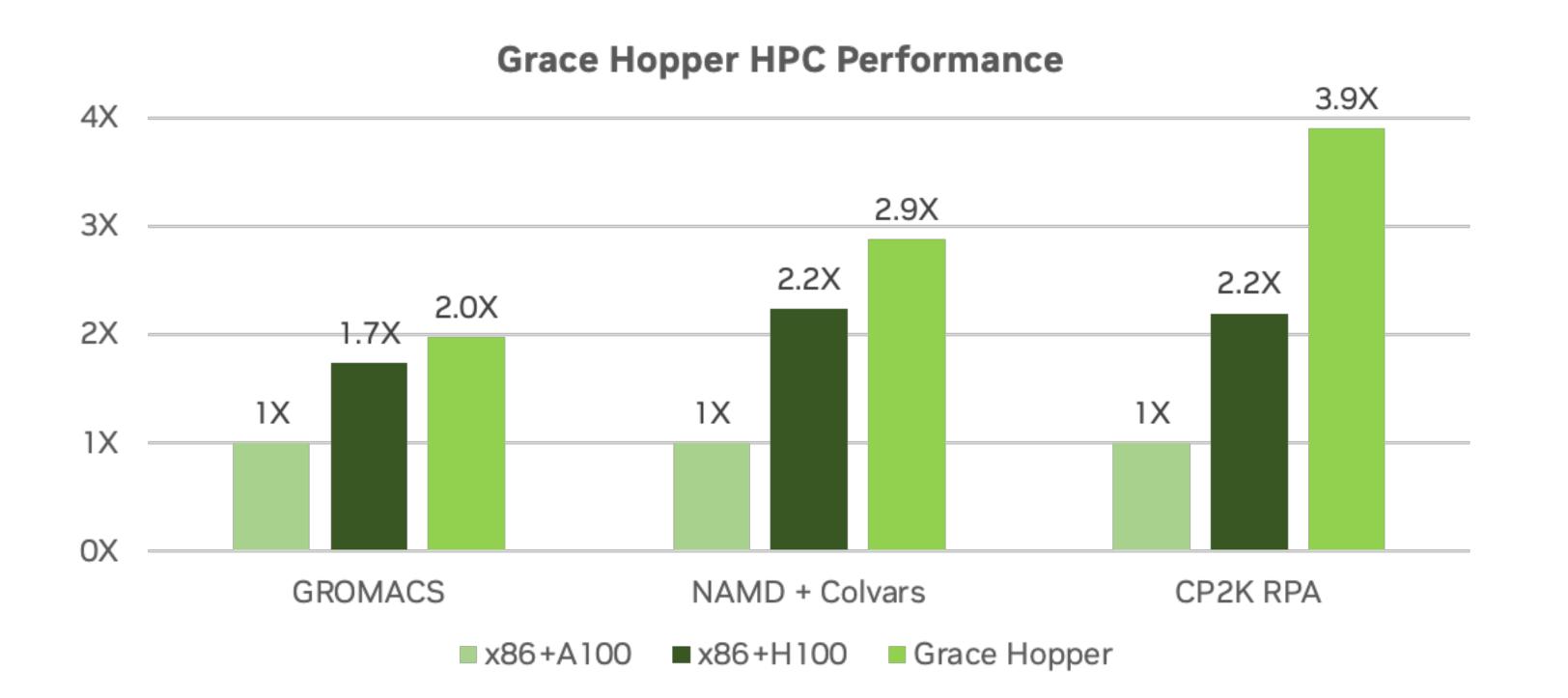
GH200 Grace Hopper HPC Platform

Unified Memory and Cache Coherence for Next Gen HPC Performance









Fast Access Memory

624GB

Memory Bandwidth

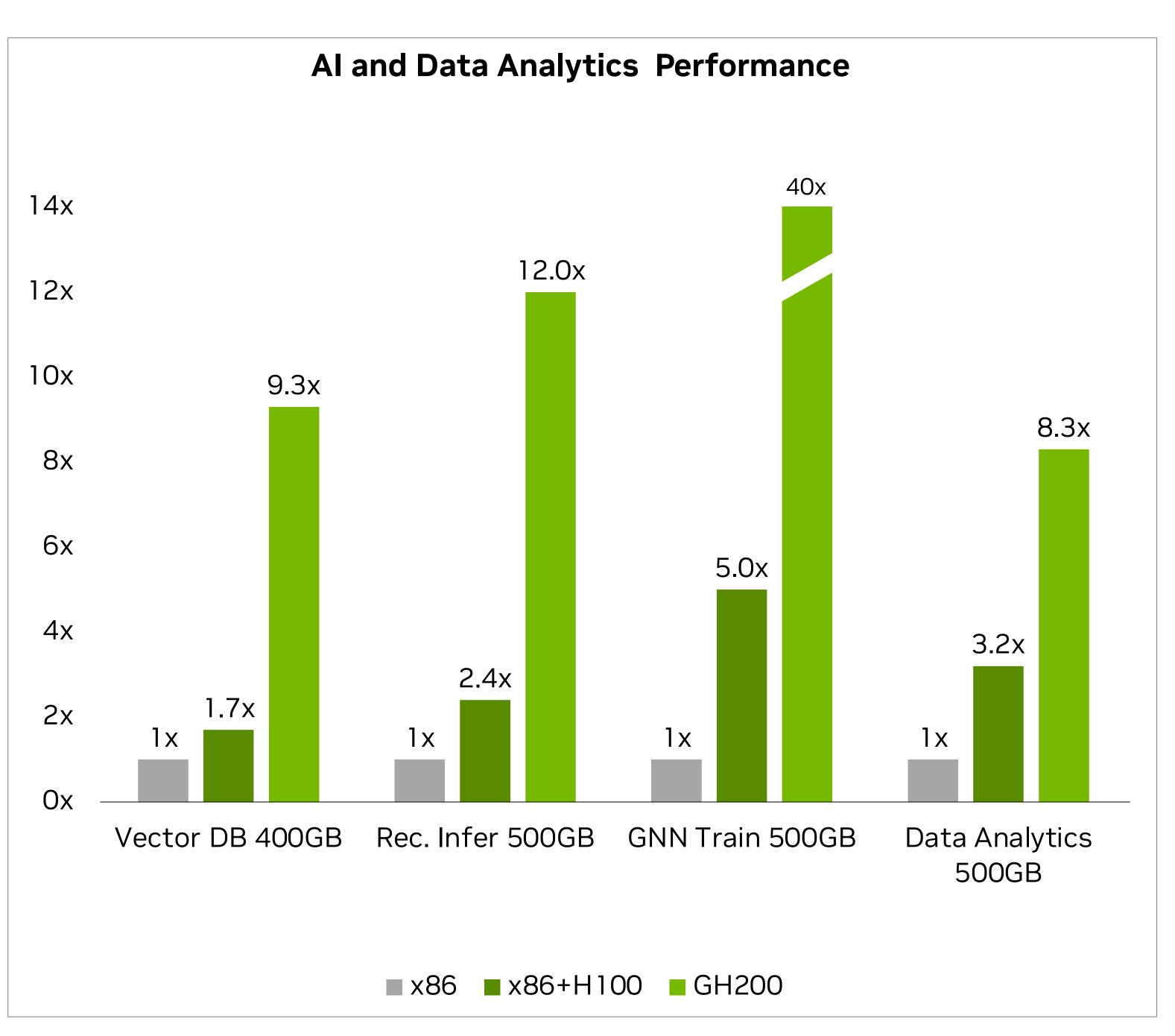
5TB/s



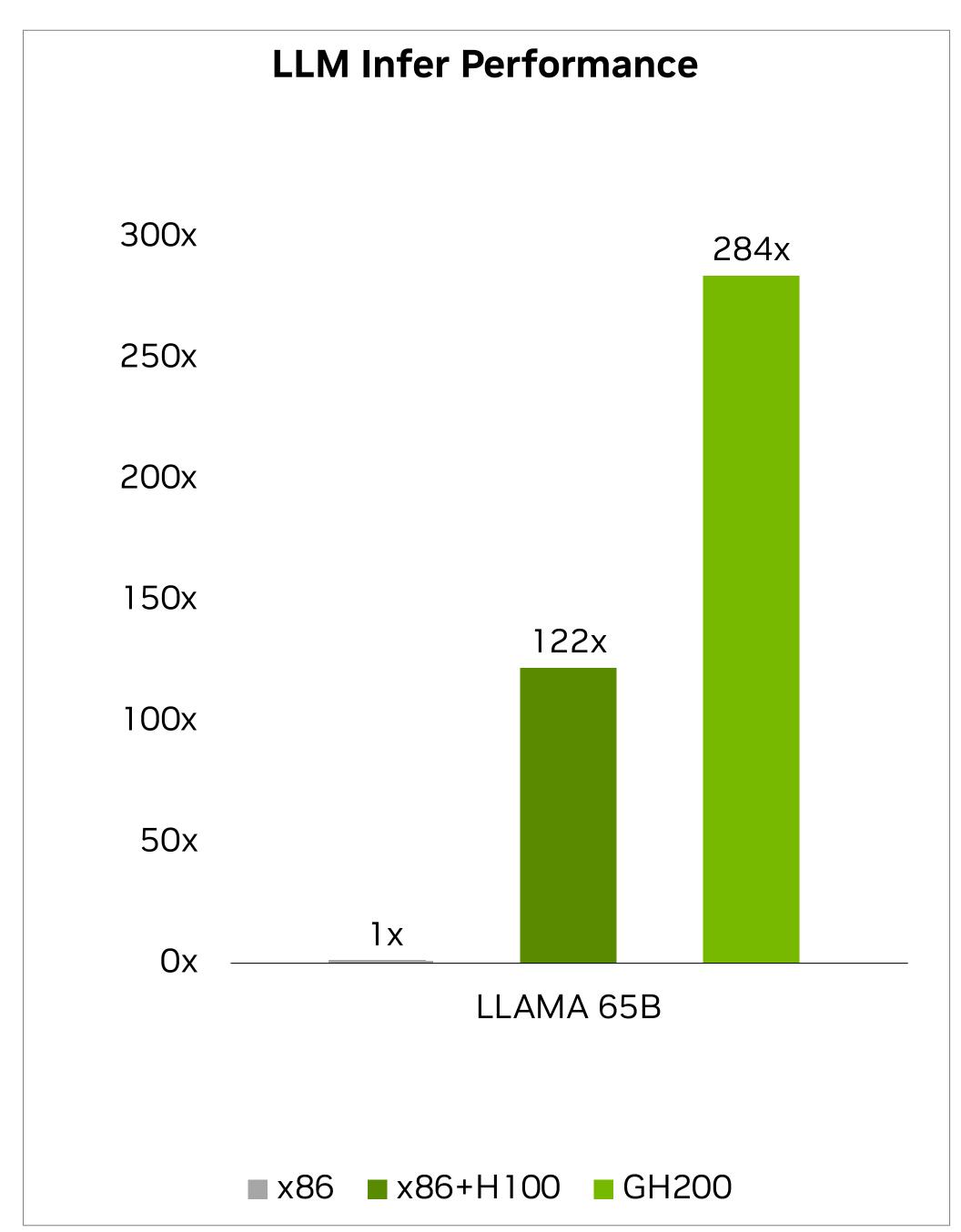
GH200 Grace Hopper Al Inference Platform

Versatile Scale Out with Unmatched Performance

Memory Intensive

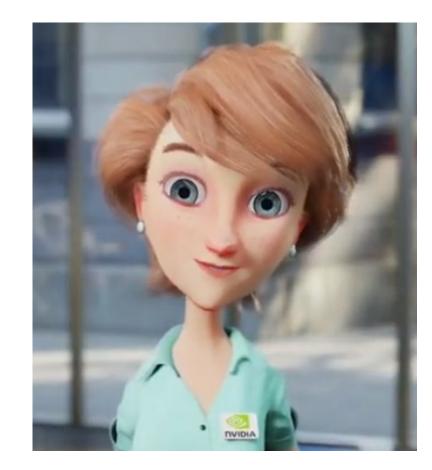


GPU Intensive

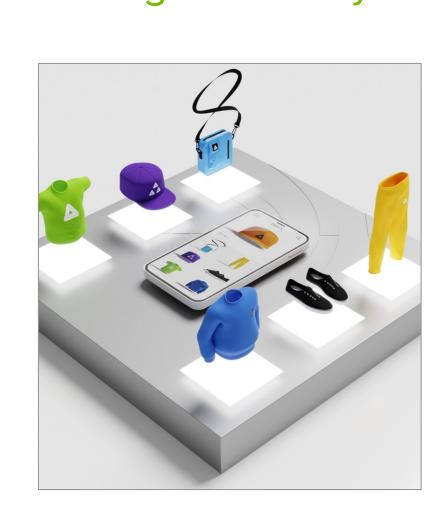


Use Cases

LLM Conversational Al Domain Knowledge



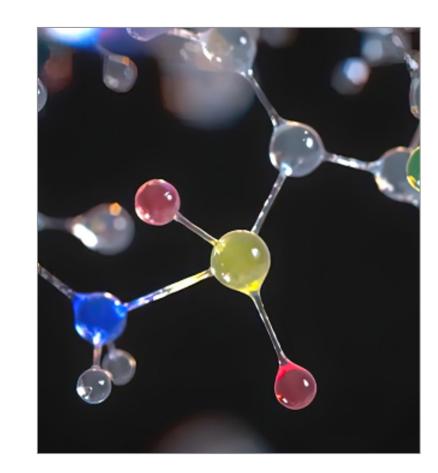
Vector Database
Fraud Detection
Drug Discovery



Recommender Systems
eCommerce
Personalized Content



GNN Computer Vison Recommenders





Simplifying GPU Programming for HPC with NVIDIA Grace Hopper Superchip

https://developer.nvidia.com/blog/simplifying-gpu-programming-for-hpc-with-the-nvidia-grace-hopper-superchip/

