NVIDIA GRID

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🔍 NVIDIA,



THE WORLD LEADER IN VISUAL COMPUTING

PERFORMANCE DELIVERED FROM THE CLOUD

Graphics accelerated virtual desktops and applications



All devices have graphics

Virtual machines also need a GPU

DELIVER VALUE ACROSS THE ENTERPRISE

Graphics virtualization provides additional benefits to both user and IT



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USER EXPERIENCE IS KEY



Providing business users the highest level of experience for all their apps on any device





CPU ONLY VS. NVIDIA GRID

GPU with NVENC provided an average positive increase to UX of 34%



Testing ran on two identical systems, CPU system was loaded up to 60-80% utilization, the GPU system ran the same workload

HOW DOES NVIDIA GRID WORK?



Virtualization Layer

Hardware

AIDIVN 📀

HOW DOES NVIDIA GRID WORK?



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Hardware



GRID HARDWARE

Maxwell Architecture



TESLA LINEUP FOR GRID

The most powerful data center GPUs targeted at graphics virtualization

	M6	M10	M60
GPU	Single High-end Maxwell	Quad Mid-level Maxwell	Dual High-end Maxwell
CUDA Cores	1536	2560 (640 per GPU)	4096 (2048 per GPU)
Memory Size	8 GB GDDR5	32 GB GDDR5 (8 GB per GPU)	16 GB GDDR5 (8GB per GPU)
H.264 1080p30 streams	18	28	36
Max vGPU instances	16	64	32
Form Factor	MXM (blade servers)	PCIe 3.0 Dual Slot (rack servers)	PCIe 3.0 Dual Slot (rack servers)
Power	100W (75W opt)	225W	240W / 300W (225W opt)
Thermal	bare board	passive	active / passive

Blade optimized

User Density Performance optimized



optimized

NVIDIA GRID LICENSING

ONGOING INNOVATION THROUGH SOFTWARE

Value added through software updates



THIS INFORMATION IS INTENDED TO OUTLINE OUR GENERAL PRODUCT DIRECTION. MANY OF THE PRODUCTS AND FEATURES DESCRIBED HEREIN REMAIN IN VARIOUS STAGES AND WILL BE OFFERED ON A WHEN-AND-IF-AVAILABLE BASIS. THIS ROADMAP DOES NOT CONSTITUTE A COMMITMENT, PROMISE, OR LEGAL OBLIGATION AND IS SUBJECT TO CHANGE AT THE SOLE DISCRETION OF NVIDIA.

🐼 ΠΛΙΟΙΔ

NVIDIA GRID PRODUCTS







For users who want to be able to use remote professional graphics applications with full performance on any device, anywhere.

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WHAT LICENSE DO I NEED?

Or: Does one size fits all?

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SUPPORT, UPDATES AND MAINTENANCE





Ongoing access to NVIDIA GRID software improvements



Long term resolution of defects and security issues

SOFTWARE LICENSING OPTIONS





Perpetual license allows for use of the licensed software indefinitely. First year of SUMS required with purchase for access to support, updates, and maintenance.



ANNUAL SUBSCRIPTION





PERPETUAL LICENSE



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NVIDIA GRID PRICING

Annual Subscription		Perpetual License + SUMS	
$\mathbb{X} \longrightarrow \mathbb{X} \longrightarrow \mathbb{X} \longrightarrow$			
Virtual Applications	\$10 Subscription	Virtual Applications	\$20 perpetual license
			\$5 SUMS
Virtual PC	\$50 Subscription	Virtual PC	\$100 perpetual license
			\$25 SUMS
Virtual Workstation	\$250 Subscription	Virtual Workstation	\$450 perpetual license
			\$100 SUMS

HIGHSPEED WITH NVENC

HOW IT WORKS TODAY





NON GPU WORKLOAD

NVIDIA NVENC ACCELERATION





NON GPU WORKLOAD

REDUCES OVERALL LATENCY

Click to Photon in ms (lower is better)









