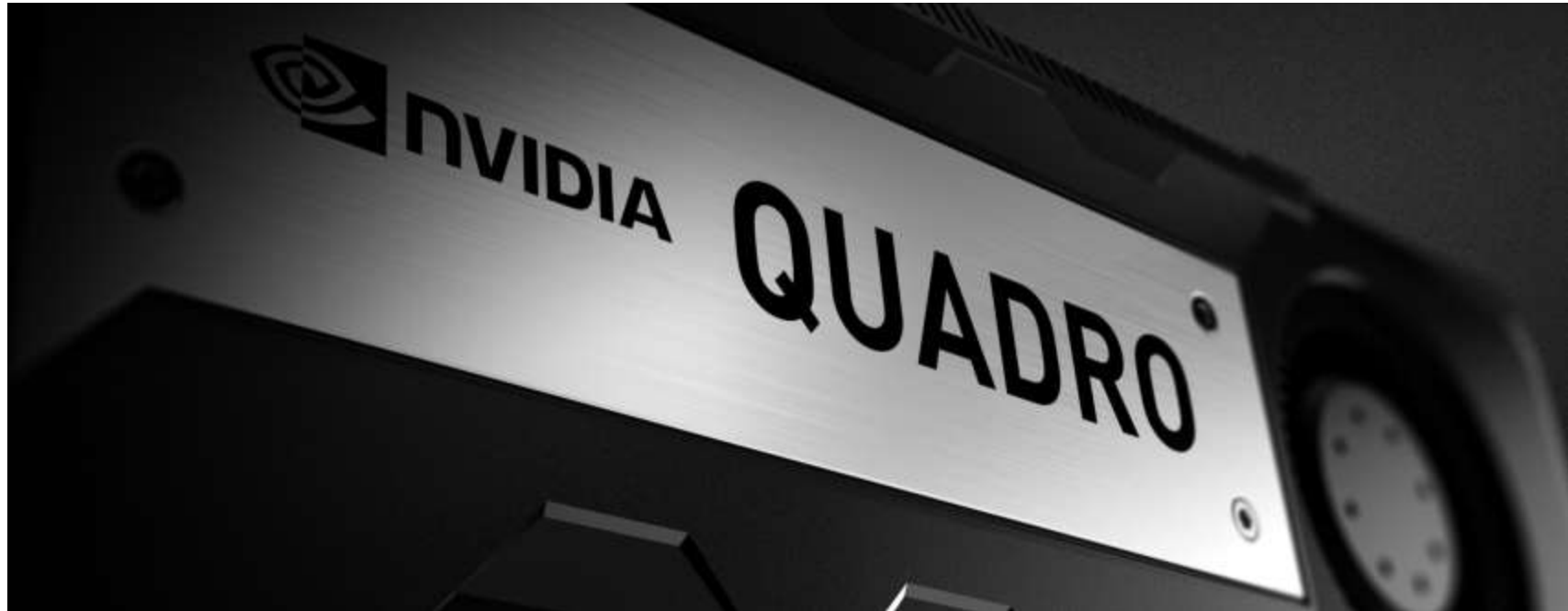


PNY®





QUADRO

ADVANCED VISUALIZATION



TESLA

PARALLEL COMPUTING



PREVAIL & PREVAIL ELITE SSDs

PROFESSIONAL STORAGE



NVS

COMMERCIAL GRAPHICS

Professional Solutions

NVIDIA® QUADRO®
AUTHORIZED PARTNER

PNY®

#1 Brand of Professional Graphics Solutions

- » ~ 75% Market Share

Powering the most advanced solutions in the world

- » Visualization Centers – Boeing, Porsche, Peugeot, BMW
- » Medical Imaging – Mass General
- » Scientific Computing – Los Alamos, Sandia
- » Digital Film Production – Disney, ILM, Dreamworks
- » HD Broadcast Graphics – ESPN, CNBC, CNN

Engineered for performance and quality

- » Certified on all leading professional applications

1	3 year warranty
2	Pre-sales support and configuration assistance
3	Support for all workstation brands and complex installations
4	Advanced replacement for mission-critical deployments
5	Dedicated Quadro Field Application Engineers
6	Support escalation for prompt issue resolution
7	Certified software support and bug reporting
8	Published product support and training materials

- The center of new visual computing workflows



Visualize Larger
Data Sets

LARGER GPU MEMORY +
HIGHER PERFORMANCE



Implement New
Cloud Workflows

OPTIMIZED FOR
REMOTE RENDERING



Collaborate
Across
Teams

K420 | K620 | K2200 | K4200 | K5200 | K6000



K420 | K620 | K2200 | K4200 | K5200 | K6000

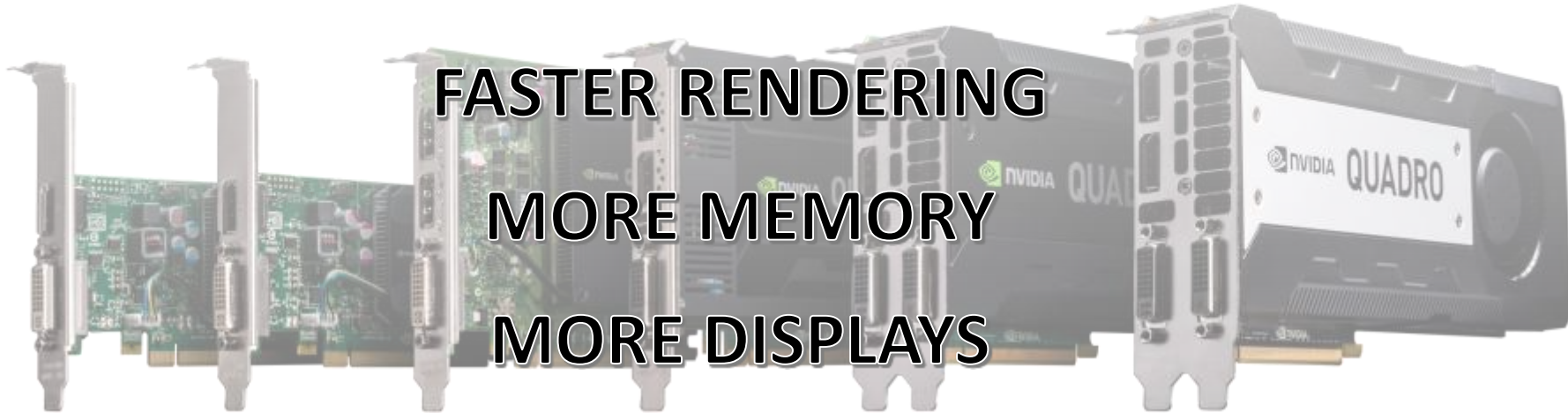
FASTER GRAPHICS

FASTER RENDERING

MORE MEMORY

MORE DISPLAYS

ROCK SOLID

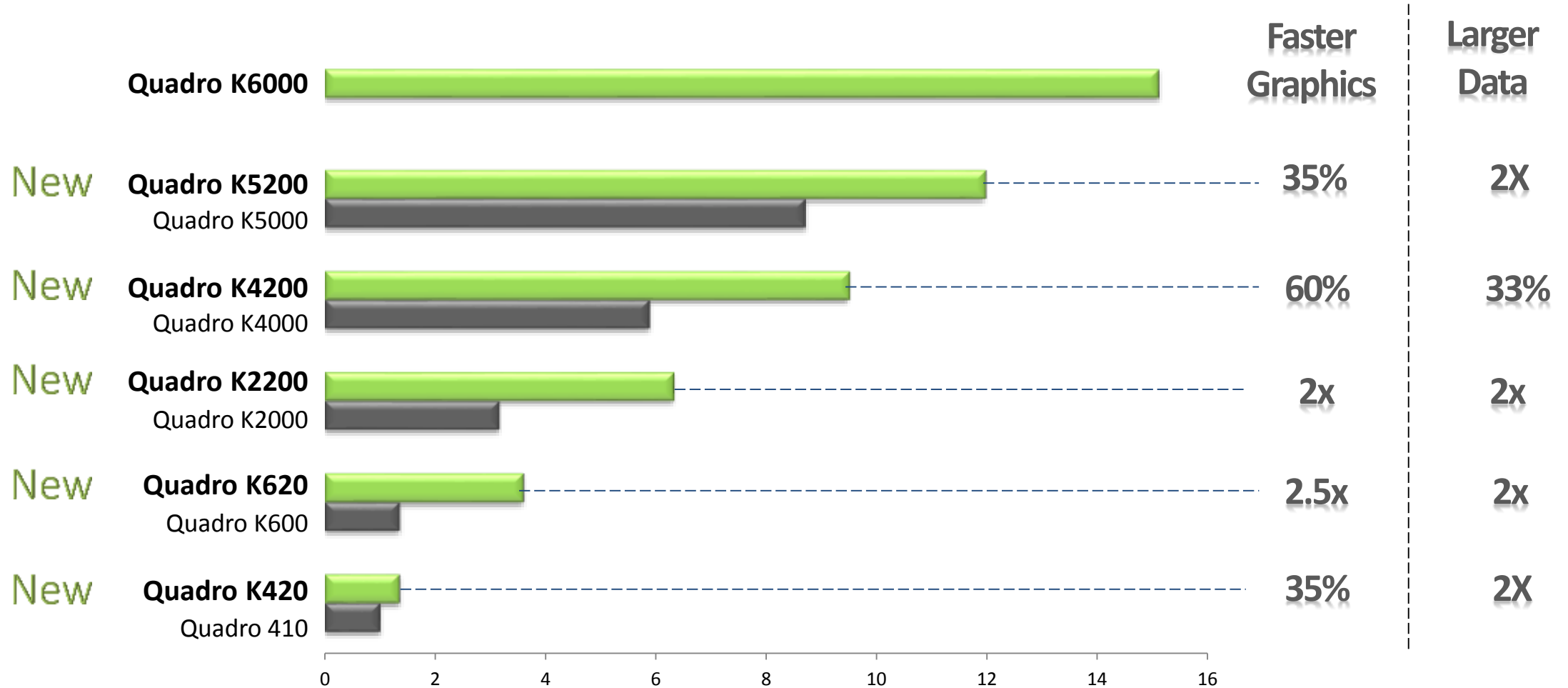


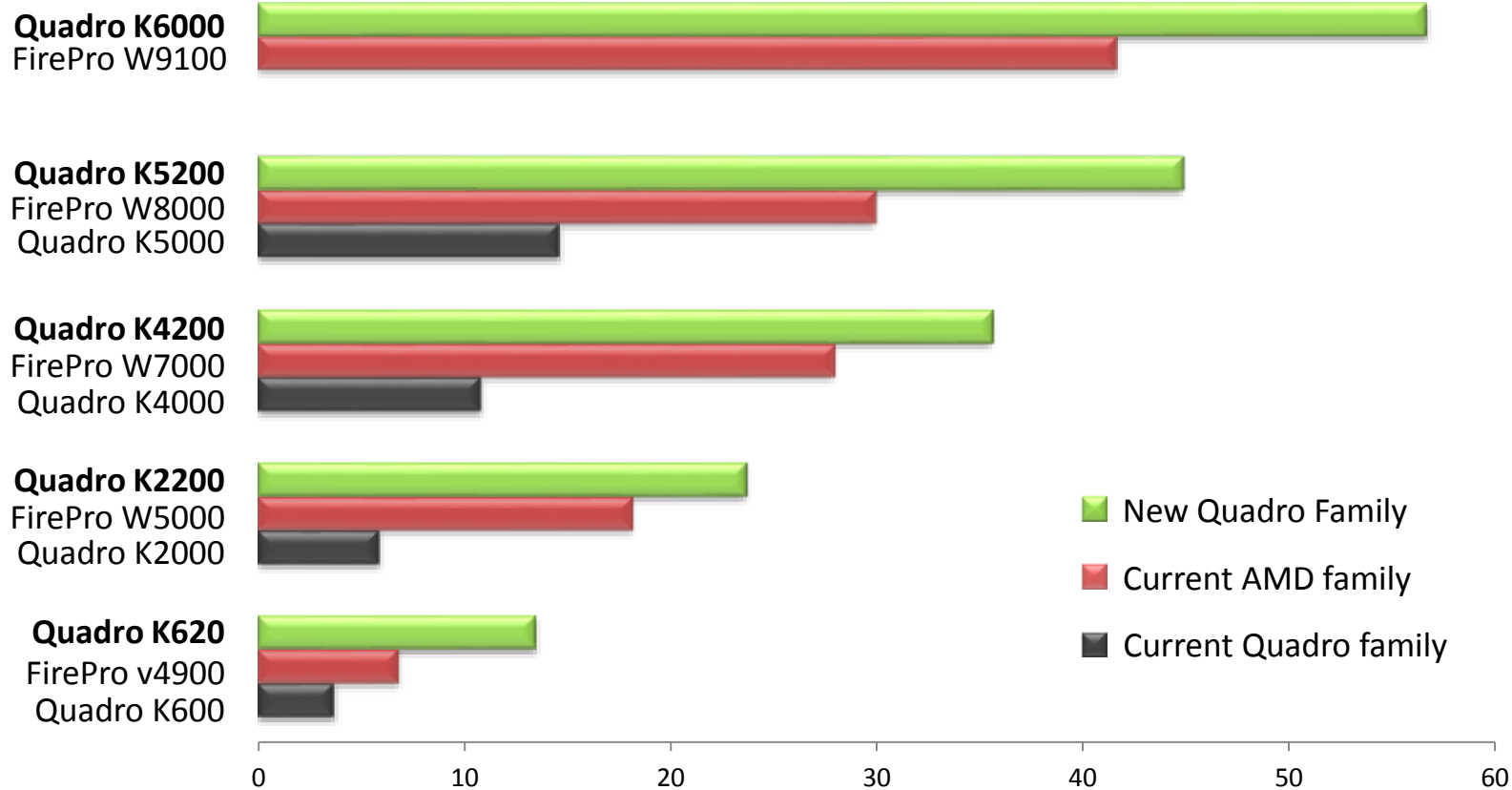
	K6000	K5200	K4200	K2200	K620	K420
# CUDA Cores	2880	2304	1344	640	384	192
Single Precision	5.2 TFLOPs	3.1 TFLOPs	2.1 TFLOPs	1.3 TFLOPs	0.8 TFLOPs	0.3 TFLOPs
PCIe Gen	3.0	3.0	2.0	2.0	2.0	2.0
Memory Size	12 GB	8 GB	4 GB	4 GB	2 GB	1 GB
Memory BW	288 GB/s	192 GB/s	173 GB/s	80 GB/s	29 GB/s	29 GB/s
Slots + Display Connectors						
Display Support	4	4	4	4	4	4
Advanced Display	SDI, SYNC	SDI, SYNC	SDI, SYNC			
Board Power	225 W	150 W	108 W	68 W	45 W	41 W

* DisplayPort 1.2 multi-streaming can be used to drive multiple displays from a single DP connector



Quadro K4200: SYNC + up to 4 Displays in a single slot





For Media & Entertainment

Model characters and scenes w/ **more realism, higher resolution textures earlier in the creative process – in 4K**

Ability to **render more complex scenes, faster than ever before**

Simple, off-the-shelf technology to **create impactful large scale display ‘spectacles’ from a single PC**

Up to 8GB memory. Store more scene data on card

Powerful graphics - Faster, smoother 3D modeling

Up to 8GB memory. Store more scene data on card

GPU Compute Horsepower - Faster render times

4 Displays + SYNC Support Eliminate motion artifacts in multi-display large scale installations

For Design, Manufacturing, AEC

Take designs straight from CAD into design review rendering applications. **Significantly reduce rendering data prep time**

Faster renders allows for **more design iterations, more creative risks can be taken**

Faster CAD modeling – now in 4K, and on 4 displays

Up to 8GB memory. Store more complete design data locally on card + GPU Compute Horsepower

8GB memory. Store more data on card

GPU Compute Horsepower - Faster render time

Powerful Graphics - Faster smoother 3D modeling



Quadro K4200

Quadro K4000



1.5% Faster, 33% larger models

Quadro K2200

Quadro K2000



36% Faster, 2x larger models

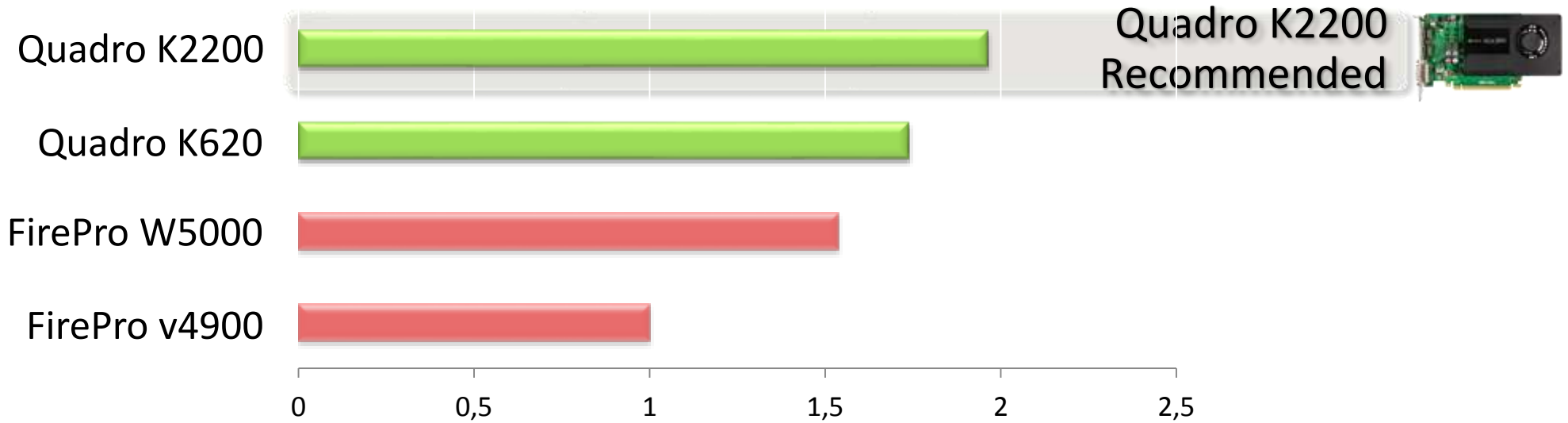
Quadro K620

Quadro K600



79% Faster, 2x larger models

0,00 0,50 1,00 1,50 2,00 2,50



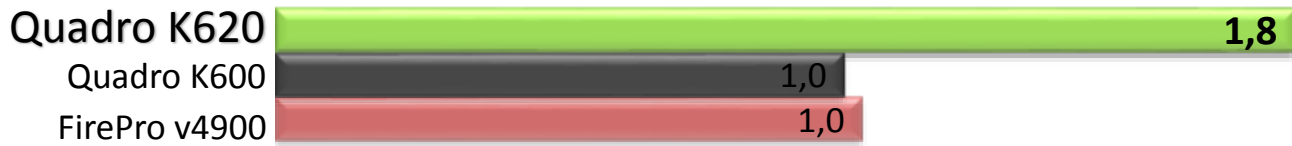
SolidWorks 2013 SPECapc NVIDIA driver 340.27, AMD driver 13.35.1012 , 1x XEON 3.1GHz (E5 2687W), X79, 32GB, Win7SP1-64



Quadro is 30% Faster



Quadro is 25% Faster

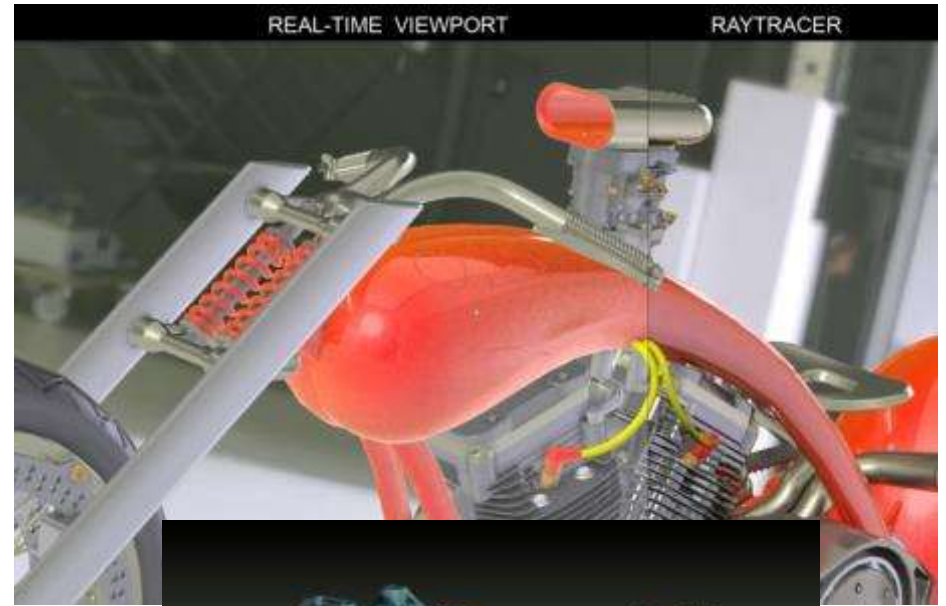
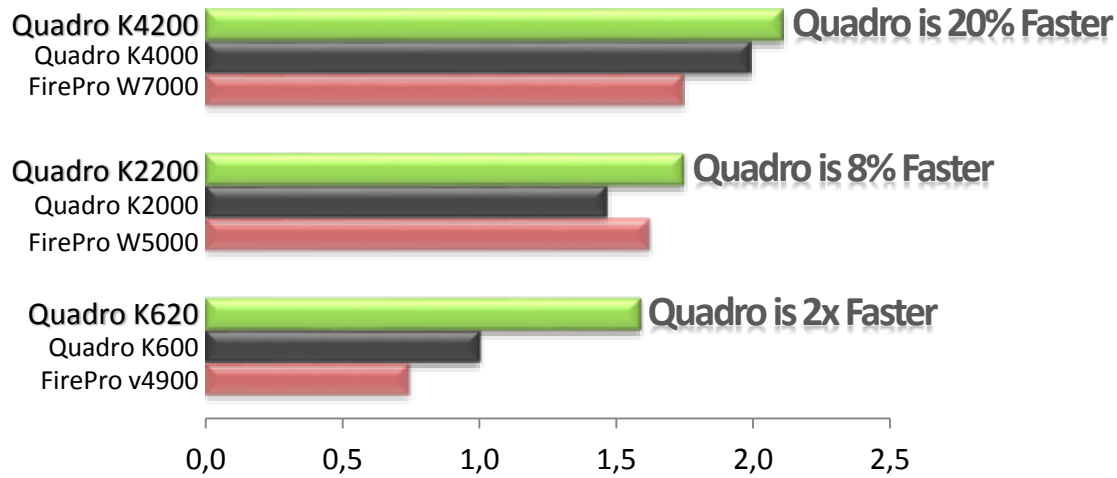


Quadro is 80% Faster

0,0 0,5 1,0 1,5 2,0 2,5

Fast modeling with High image quality (FSAA)
 Fast transparency viewing (GPU accelerated OIT)
 Immersive Design Environment – New in Creo 3.0

- Real-time viewport performance
- Material matching to ray traced scenes



Creo 2.0 SPECanc. X76 with XEON 3.1Ghz. 32GB. Win 7 64bit SP1

**AUTOCAD**

Great 3D performance + high quality FSAA edges - **Quadro K2200, K620**

**INVENTOR**

Fast modeling with even the largest assemblies - **Quadro K2200, K620**

**REVIT**

Great modeling + fast point cloud + sketchy lines with **Quadro K620** and the ability for photo-realistic rendering in 3dsMax with **Quadro K5200 or K6000**

**MAYA**

Fast Viewport 2.0 performance with the highest quality views and the largest scenes thanks to large GPU memory with **Quadro K4200, K5200, and K6000** + ability to render with GPU accelerated rendering plugins

**3DS MAX**

Fast scene setup and GPU accelerated iRay rendering with **Quadro K5200, K6000** and multi-GPU combinations



Quadro K6000



Quadro K5200

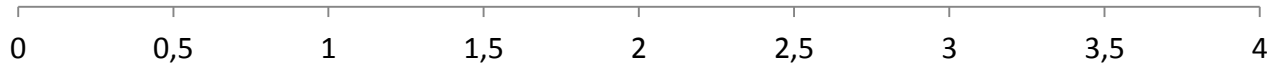


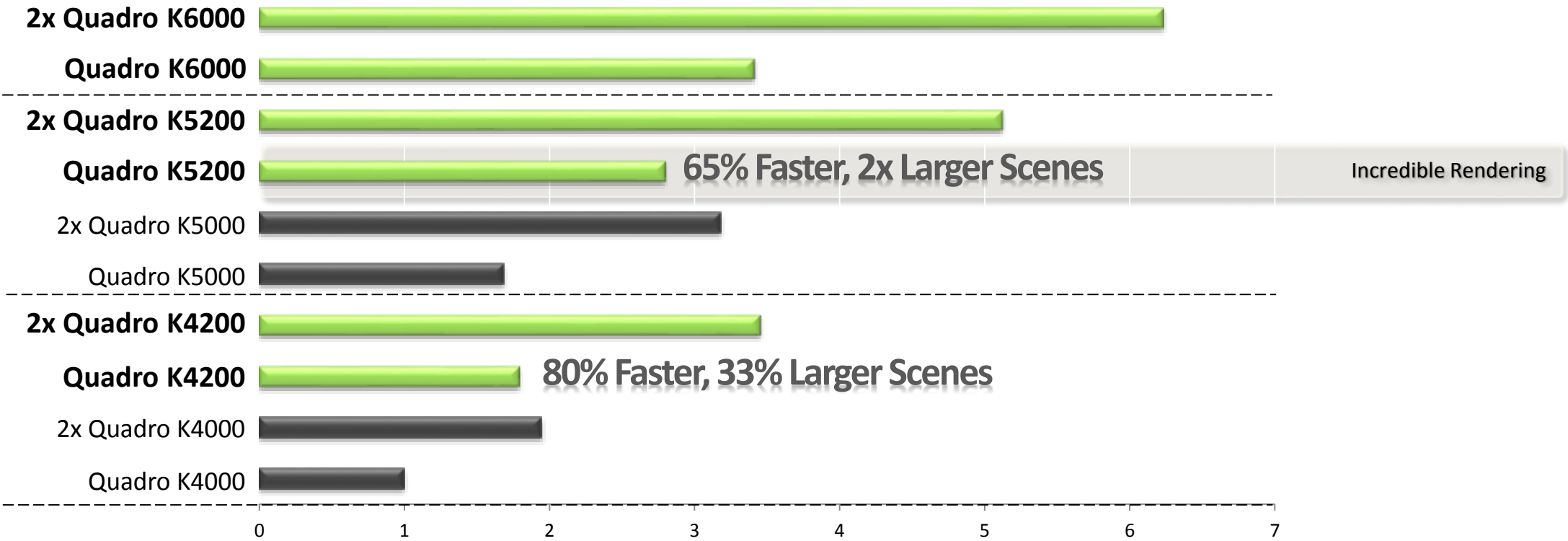
65% Faster
2x Larger Scenes

Quadro K4200



80% Faster
33% Larger Scenes





3Ds Max 2014, X76 with XEON 3.1Ghz (E5 2687W), 64GB, Win 7 64bit SP1

- Quadro for M&E





23x



ULTRA FAST, REAL-TIME VIDEO EDITING

Smooth interaction with heavy effects even at Ultra HD

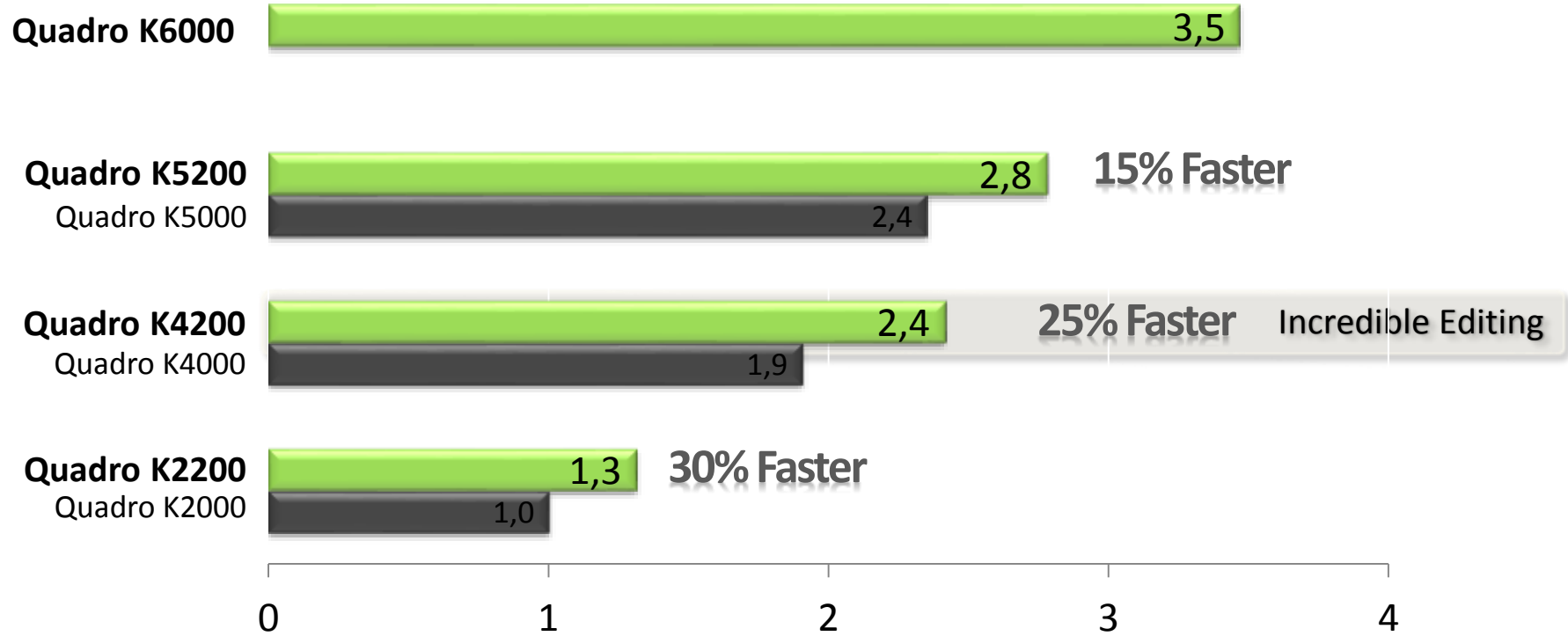
NEW 4K SPEED WITH GPU DEBAYERING

Fast RED Media playback replaces RED ROCKET card

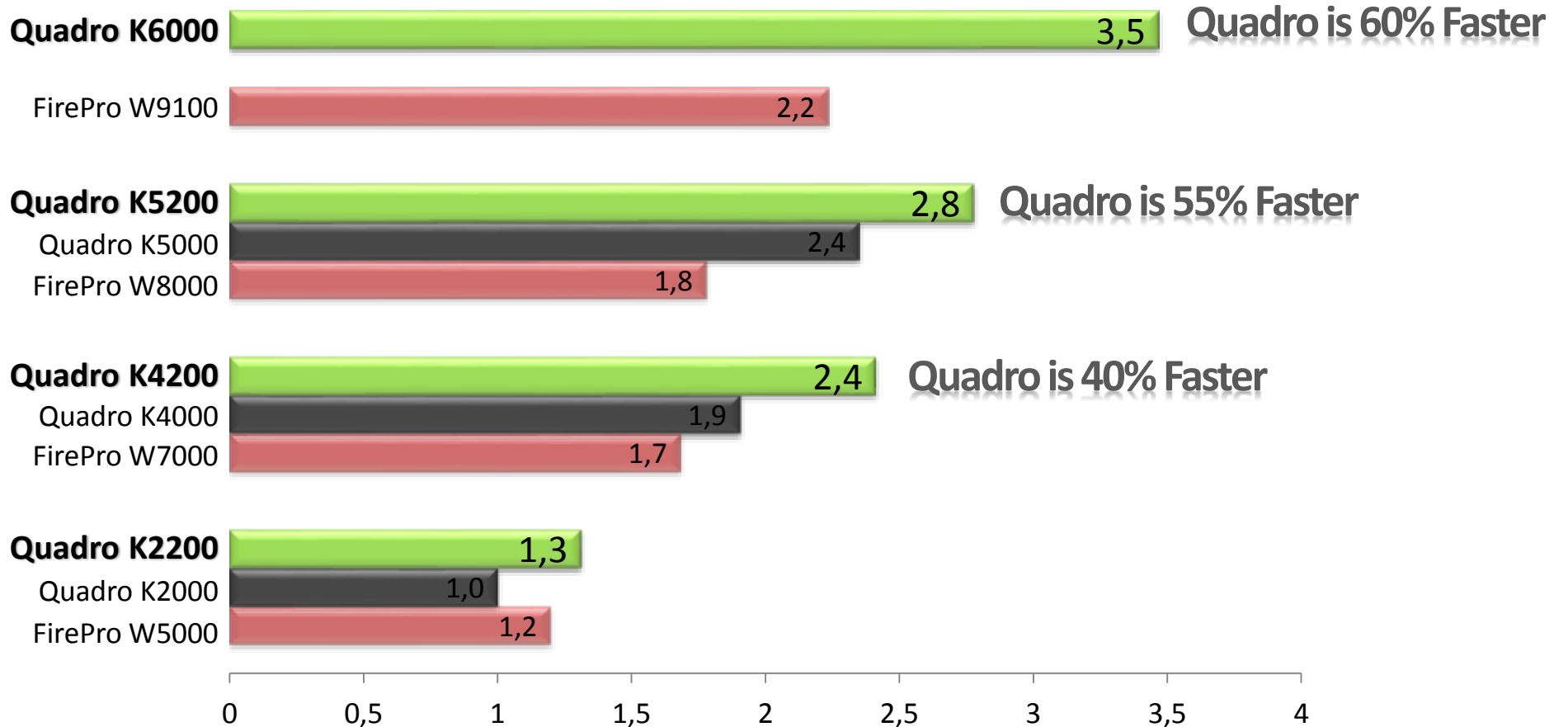
NEW FEATHERED MASKING & MASTER CLIPS

Accelerated Feathering within auto image tracking

Quickly apply GPU accelerated effects to multiple sub-clips



Tested with Adobe Premiere Pro CC 2014, Windows 7, Intel Xeon E5 2687W, 720p resolution. Results based on final output render time using Mercury Playback Engine.



Quadro is 60% Faster

Quadro is 55% Faster

Quadro is 40% Faster

Tested with Adobe Premiere Pro CC 2014 Windows 7 64-bit Version ES 3207W 6890. Results based on first test run using Maxon Playback Engine.



THE TOOL FOR PRINT & WEB ART

Millions of Adobe Illustrator CC Users

10x

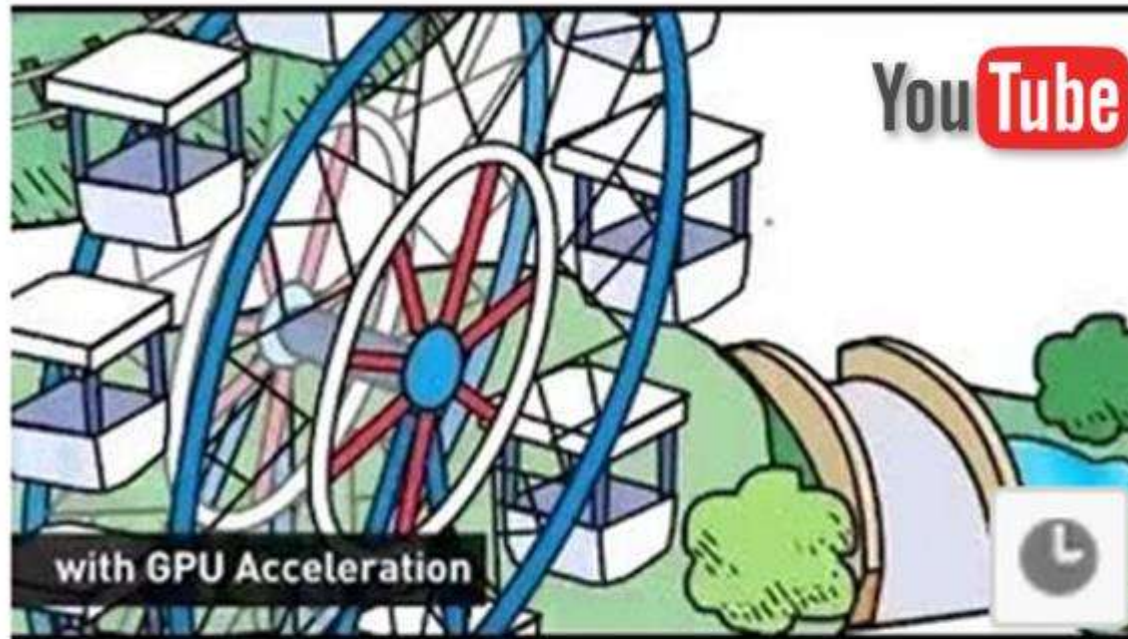
10X FASTER ON NVIDIA GPUs

Near Real-Time Interactive Pan & Zoom



NVIDIA EXCLUSIVE

Vector Graphics Rendered by NV Path Rendering



How NVIDIA GPUs Accelerate Adobe Illustrator CC



NVIDIA



PREMIERE PRO CC

23x Faster Video Editing (Real-Time) . **New** GPU Debayering



ILLUSTRATOR CC

Over 10x Faster Pan & Zoom . **Exclusively NVIDIA**



PHOTOSHOP CC

Fast, Fluid GPU Effects . **New** GPU Blurs, Focus Mask, Upsampling



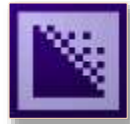
AFTER EFFECTS CC

3D Ray Tracing . Up to 39x Faster . **Exclusively NVIDIA**



SPEEDGRADE CC

Professional Color Grading Built on GPUs



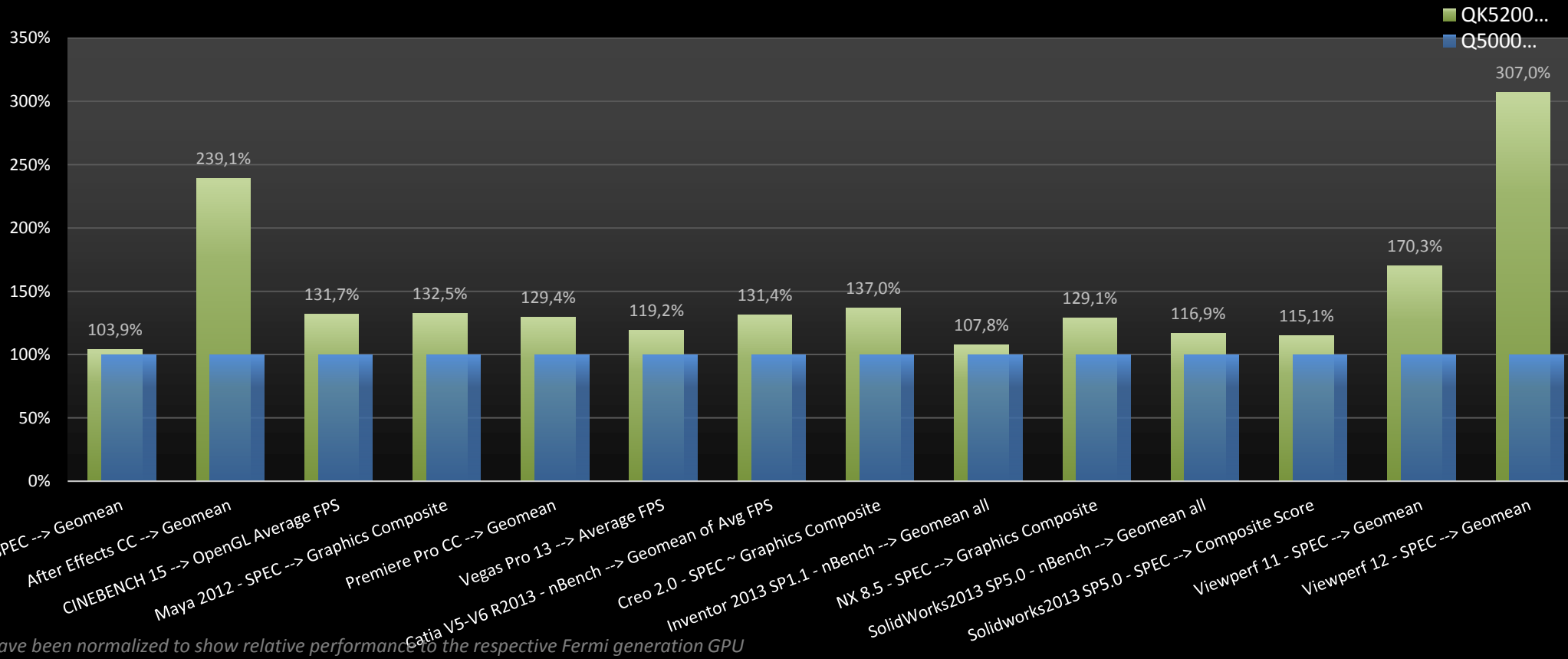
ADOBE MEDIA ENCODER CC

New GPU Acceleration Integrated Throughout Video Apps

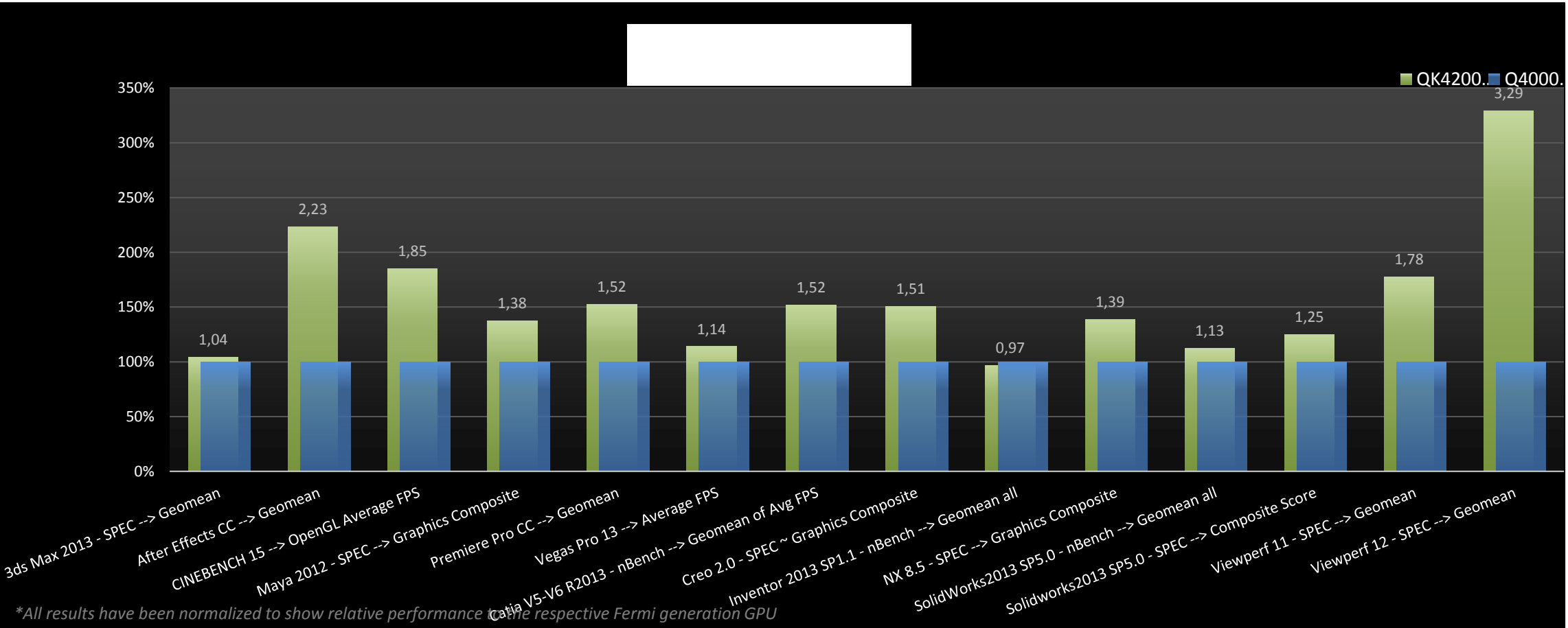


ADOBE ANYWHERE

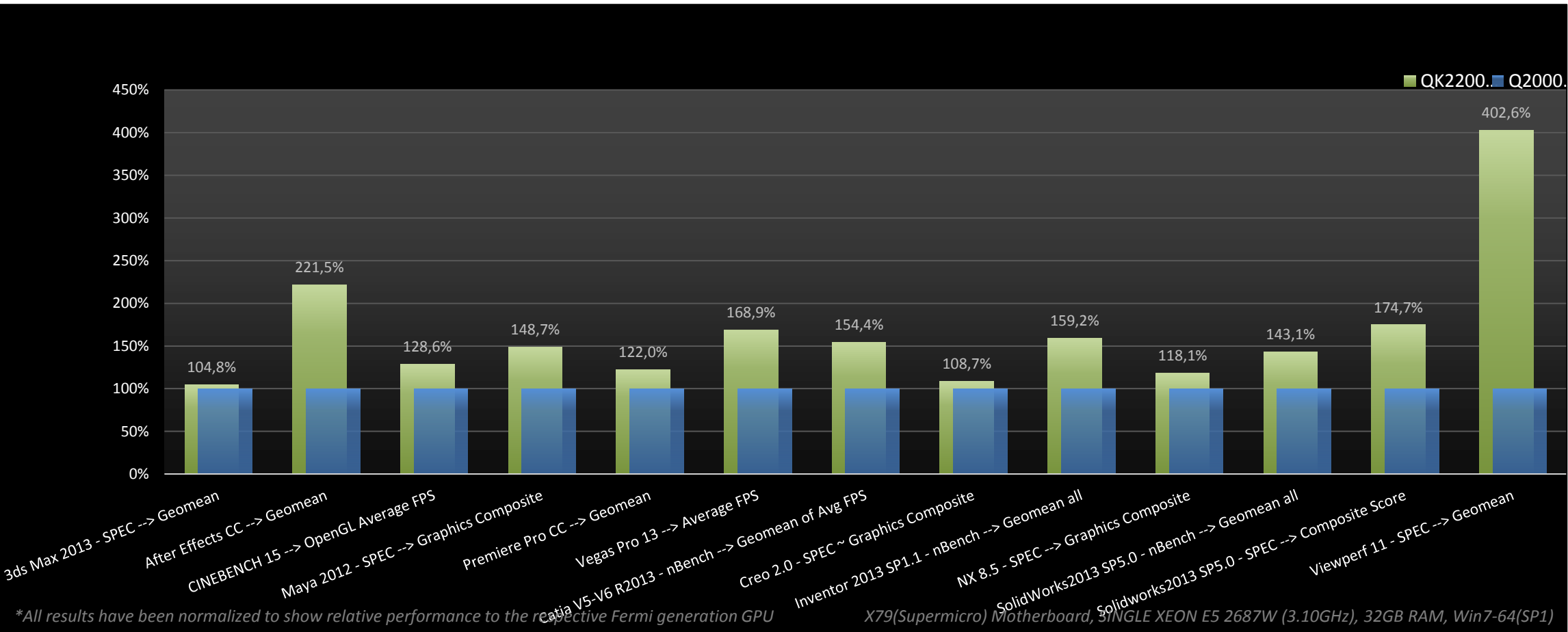
Networked Video Collaboration . **Exclusively NVIDIA Tesla**

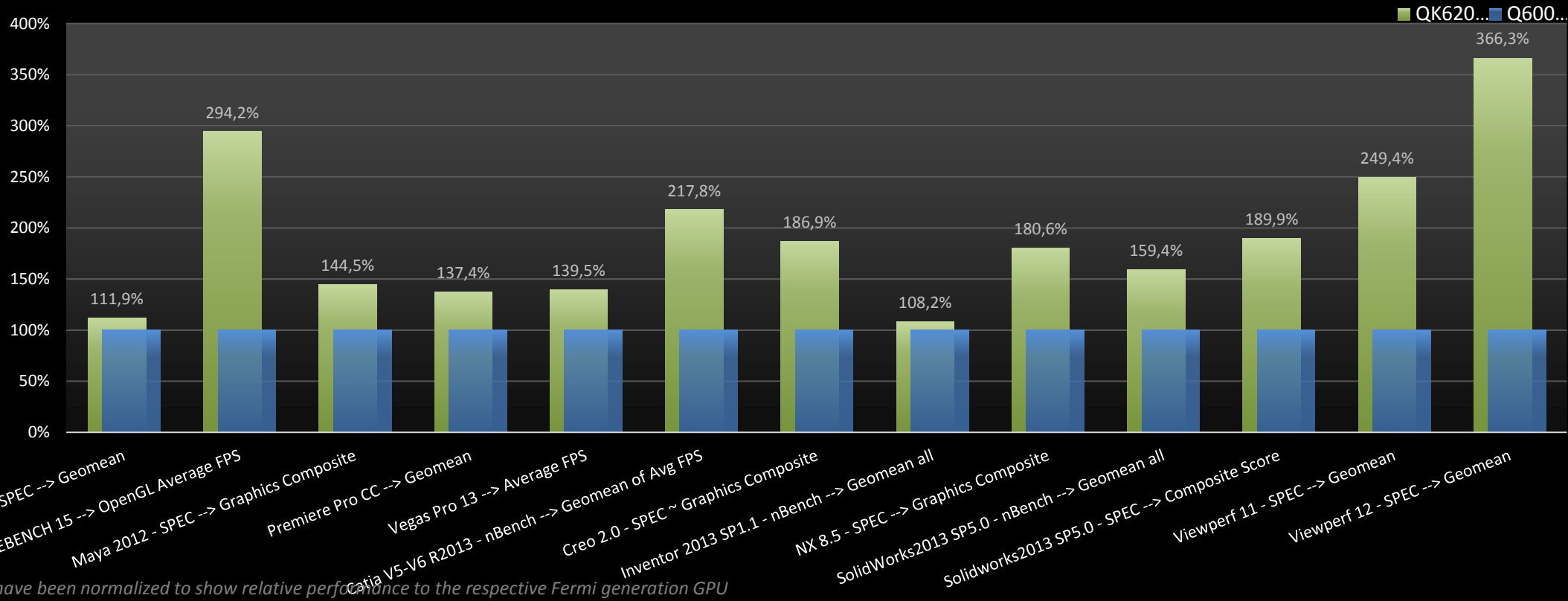


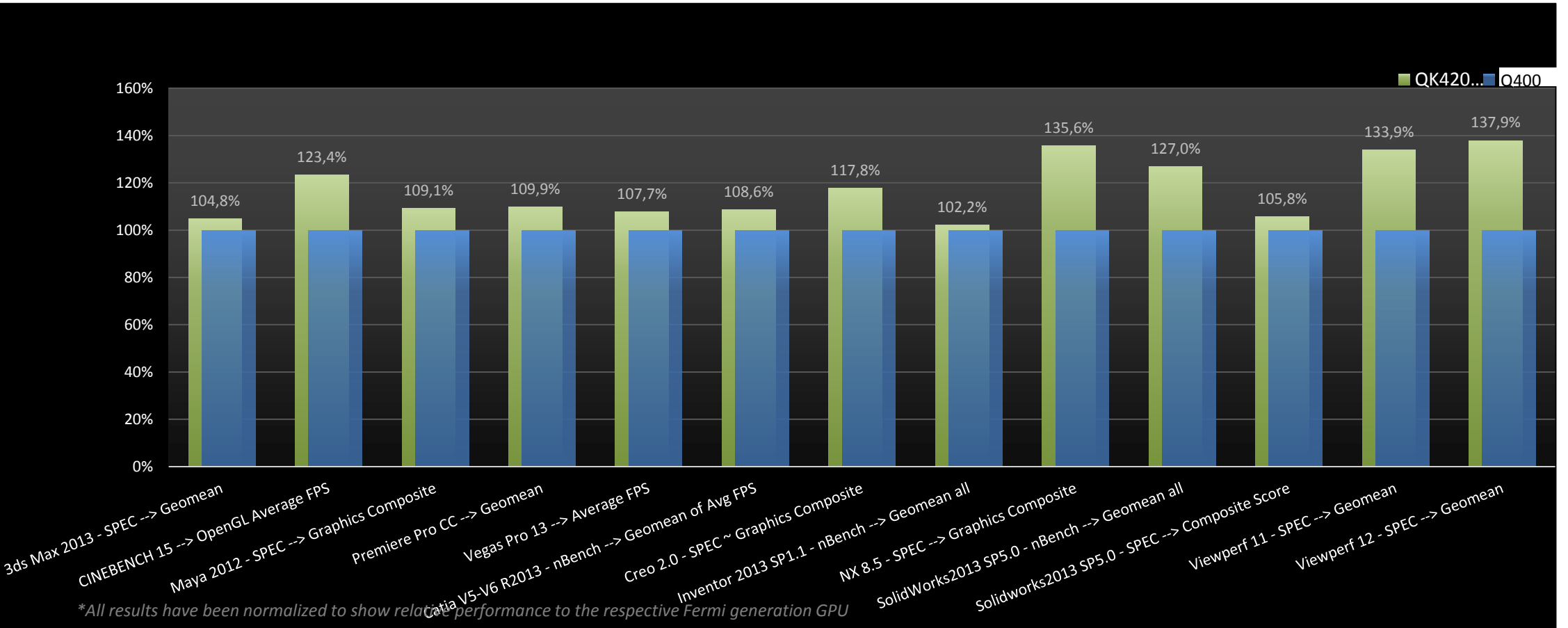
*All results have been normalized to show relative performance to the respective Fermi generation GPU



*All results have been normalized to show relative performance to the respective Fermi generation GPU







NVIDIA MULTI-GPU



Scale Performance & Work more Flexibility

- Over 40 applications Support Multi-GPU
- Workstations are increasingly designed for Multi-GPU

- The Center of Visual Computing Workflows
- Enterprise-grade hardware & software with proven reliability
 - Over 100 ISV certifications
- Faster graphics & compute
- 2x more data capacity
- Seamless connectivity to cloud & mobile
- Same price

AVAILABLE SEPTEMBER 2014

	Quadro K5200	Quadro K5000	Quadro K4200	Quadro K4000	Quadro K2200	Quadro K2000	Quadro K620	Quadro K600	Quadro K420	Quadro 410
# CUDA Cores	2304	1536	1344	768	640	384	384	192	192	192
Single Precision	3.0 TFLOPs	2.2 TFLOPs	2.1 TFLOPs	1.2 TFLOPs	1.3 TFLOPs	733 GFLOPs	823 GFLOPs	336 GFLOPs	336 GFLOPs	271 GFLOPs
Memory Size	8 GB	4 GB	4 GB	3 GB	4 GB	2 GB	2 GB	1 GB	1 GB	.5 GB
Memory BW	192 GB/s	173 GB/s	173 GB/s	134 GB/s	80 GB/s	64 GB/s	29 GB/s	29 GB/s	29 GB/s	14 GB/s
PCIe	x16 Gen 3.0	x16 Gen 2.0	x16 Gen 2.0	x16 Gen 2.0	x16 Gen 2.0	x16 Gen 2.0	x16 Gen 2.0	x16 Gen 2.0	x16 Gen 2.0	x16 Gen 2.0
Board Dimensions	10.5x4.376	10.5x4.376	9.5x4.376	9.5x4.376	7.97x4.376	7.97x4.376	6.3x2.713	6.3x2.713	6.3x2.713	6.3x2.713
ViewPerf 12	37	30	29	21	22	11	13	5	5	3
Boost	Yes	No	Yes	No	Yes	No	Yes	No	No	No
Quadro Sync	Yes	Yes	Yes	No	No	No	No	No	No	No
SDI	Yes	Yes	Yes	Yes	No	No	No	No	No	No
Total Board Power	150W	122W	108W	80W	68W	51W	45W	41W	41W	38W

A Market leader:

In contact with resellers **across EMEA**

Increasing its Sales and Marketing team to deliver the right service to you

Visibility on fairs / trade shows

A strong logistic:

Flexibility

Minimum stocks

Key local distribution partners

48 hrs delivery in Europe

Pre-Sales support:

Technical Support:

3 years support

Multilingual tech support team

Quadro dedicated tech support team

Replacement of the default product

Who:

Hardware and software resellers
Value Added Resellers (VAR)
System Integrators (SI)

Benefits:

Regular PNY-brand NVIDIA Quadro® updates through a **Twitter** account which will keep you informed about new products, promos, events...

@pnyprouk

@pnyprode

@pnyprofr

Access to technical specifications and sales tools: presentations, brochures, manuals, guides
Marketing materials: pictures, artworks, logos.

Special offers and promotions

You will be automatically registered in our "Where to buy?" Section so your name will appear when an end-user is looking for a Quadro reseller Support

Thank You !