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NVIDIA Quadro by PNY and iray

Raising the Bar for 3ds Max Users

NVIDIA Quadro by PNY

Join the rendering revolution



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3ds Max 2012 with iray

Available via subscription pack

3ds Max product description

- World's most popular 3D content creation tool
- Used across design, games and VFX markets
- Over 300,000 3ds Max licenses, many on subscription

News for 3ds Max 2012 is iray

- iray support within 3ds Max ActiveShade interactive rendering window
- 9x faster on Quadro GPUs than an Intel 3GHz x5570 Xeon CPU with 8 cores rendering
- 2x faster on a Quadro Fermi GPUs than previous generation Quadro products
- Target markets include AEC, MCAD, industrial, packaging, lighting and interior design



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3ds Max 2012

NVIDIA Quadro by PNY advantages

Advantages across all 3ds Max markets

- 35% viewport speed increase with Performance Driver*
- 100% viewport speed increase with Geometry Engines**
- Large frame buffers for texture heavy scenes (common in games and VFX)

Advantages for iray GPU ray tracing

- Massive GPU memory capacity allows complex scenes to be accelerated
- Modest scenes may require 600MB+ for geometry and bitmaps
- Large scenes (poster size) may require over 1GB just for buffer***
- Quadro products can support network or cluster rendering



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* Versus consumer graphics ** Quadro 5000 versus GTX 480 ***48 bytes per pixel

NVIDIA Quadro Accelerates 3ds Max 2012

Faster realization of photorealistic results

Quadro 6000, 5000 and 4000 deliver optimal viewport graphics

- Quadro 3ds Max Performance Driver for superior viewport speeds
- Quadro Geometry Engine gives over 2x speed increase on large models

Subscription users benefit from

- Intuitive workflow for predictable photorealistic results
- Up to 9x performance increase with CUDA-enabled iray rendering*



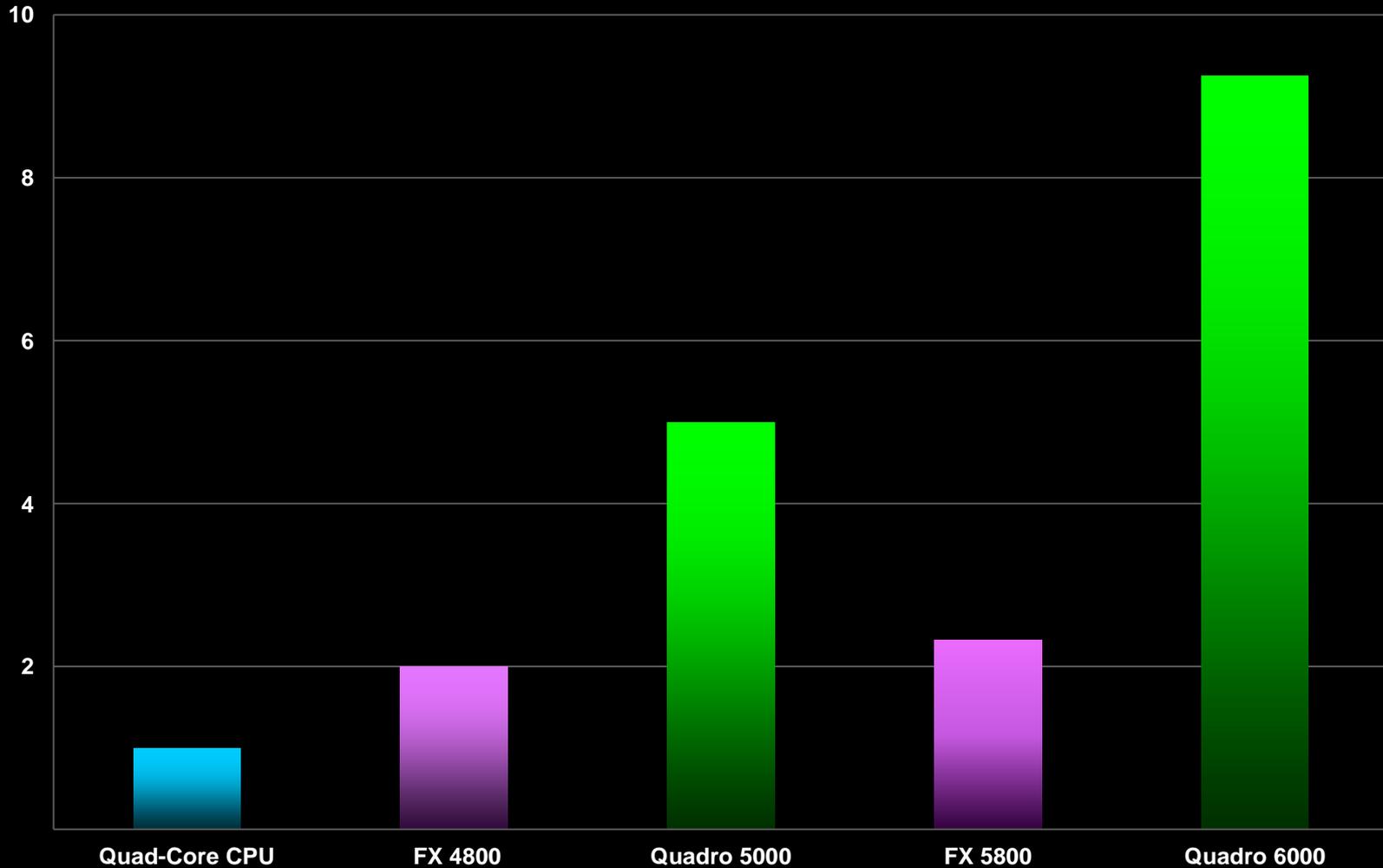
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* 9x faster on Quadro GPUs than an Intel 3GHz x5570 Xeon CPU with 8 cores rendering.

3ds Max 2012 iray GPU Performance

Quadro Fermi provides 2.7x boost over prior generation



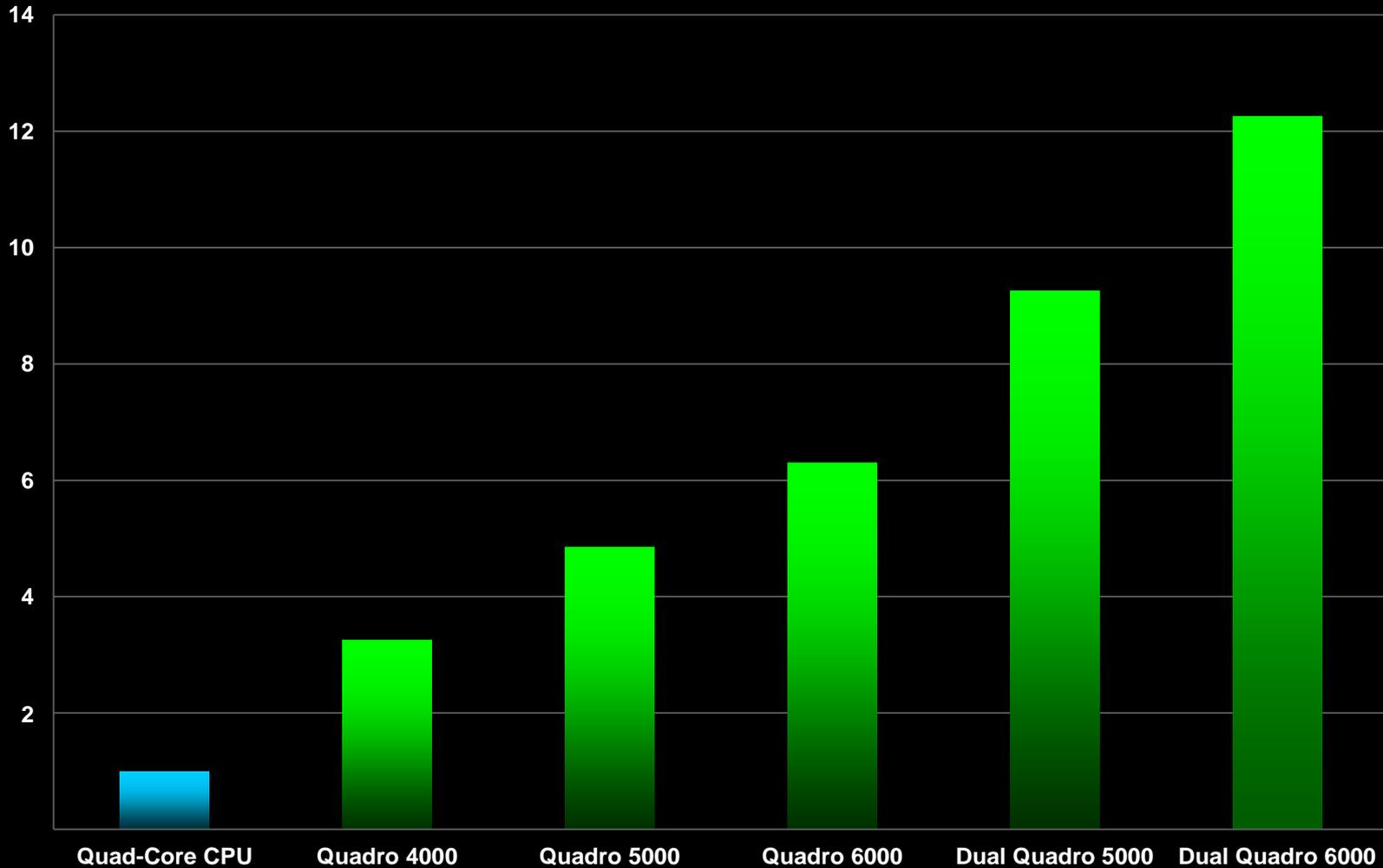
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Same system – only the graphics board configuration was changed

3ds Max 2012 iray GPU Performance

Continual scaling via Fermi CUDA cores



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Same system – only the graphics board configuration was changed

The Quadro 3ds Max and iray Advantage

Best possible graphics and rendering experience

3ds Max graphics performance

- 2x speed increase on large mesh models with Quadro Fermi geometry engines
- 35% boost over consumer graphics with Quadro performance drivers
- Handle texture intensive scenes with the industry's largest frame buffers

3ds Max iray performance

- Largest scenes and output resolutions run at 9x speed due to massive Quadro GPU memory capacity*

Certified by Autodesk

- Quadro 6000, 5000 and 4000 certified now

Highest reliability

- Built to exacting NVIDIA specifications with an extended product lifecycle
- 3 year hardware warranty and professional support
- Certified and recommended by leading ISVs and IHVs



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* Dual Quadro 6000 configuration

Suggested 3ds Max Quadro Configurations

Best | Quadro 6000 | [VCQ6000-PB](#)

- Up to 50% greater interactive performance*
- 6GB GDDR5 frame buffer for maximum texture intensive scenes
- Largest number of Geometry Engines for large mesh models
- Accelerates iray rendering up to 6x**



Better | Quadro 5000 | [VCQ5000-PB](#)

- Up to 40% greater interactive performance*
- 2.5GB GDDR5 frame buffer for texture heavy scenes
- More Geometry Engines help with large mesh models
- Accelerates iray rendering up to 5x**



Good | Quadro 4000 | [VCQ4000-PB](#)

- Up to 35% greater interactive performance*
- 2.0GB GDDR5 frame buffer for texture heavy scenes
- Geometry Engines for large mesh models
- Accelerates iray rendering up to 3.5x**



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GPU Ray Tracing Configurations (iray)

Best | Workstation | [VCQ6000-PB](#)

Designers working with large scenes or resolutions

- Two (2) Quadro 6000 or Quadro Plex 7000
- 12x iray speed increase*
- 166% scene and resolution size improvement**

Best | Network Rendering | [VCGPU6K-PCK](#)

Designers working with large scenes and resolutions

- Four (4) Quadro 6000 or two (2) Quadro Plex 7000
- 24x iray speed increase*
- 166% scene and resolution size improvement**

Better | Workstation | [VCQ5000-PB](#)

Designers wanting faster rendering decisions

- Two (2) Quadro 5000
- 10x iray speed increase*
- 67% scene and resolution size improvement**

Better | Network Rendering | [VCGPU6K-PCK](#)

Very fast render node

- Four (4) Quadro 6000 or Quadro Plex 7000
- 24x iray speed increase*
- 166% scene and resolution size improvement**

Good | Workstation | [VCQ5000-PB](#)

Designers wanting faster rendering decisions

- Single Quadro 5000
- 5x iray speed increase*
- 67% scene and resolution size improvement**

Good | Network Rendering | [VCQ6000-PB](#)

Fast and efficient render node

- Two (2) Quadro 6000
- 12x iray speed increase*
- 166% scene and resolution size improvement**

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Get the advantage.

Learn More: www.pny.com/quadro



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