

# QUADRO P4000



# NVIDIA QUADRO PASCAL DESKTOP FAMILY

Most demanding rendering and GPGPU compute applications

Largest CAD models, CAE, Photorealistic rendering, Seismic exploration, GPGPU compute

Large/complex CAD models, Seismic exploration, complex DCC effects, 3D Medical Imaging Recon

Large/complex CAD models, Advanced DCC, Medical Imaging

Medium size/complexity CAD models, Basic DCC, Medical Imaging, PLM

Small/simple CAD models, video, Entry PLM

**GP100 16GB HBM**

**P6000 24GB**



**P5000 16GB**



**P4000 8GB**



**P2000 5GB**

**P1000 4GB LP**

**P600 2GB LP**

**P400 2GB LP**

Office, Sketchup

PACS/Diagnostics

Schlumberger, Halliburton, DeltaGen, Catia Live Rendering

AutoCAD, Revit, Inventor

Ansys, Abaqus, Simulia

Solidworks, NX, Creo, Catia

Adobe CC Photoshop, Illustrator

Adobe CC Premiere Pro, After Effects, Autodesk Maya, 3ds Max, Mari, Nuke

# QUADRO P4000

- SPECIFICATIONS
- PERFORMANCE

# QUADRO P4000



GPU ARCHITECTURE	Pascal
CUDA CORES	1792
FP32 PERFORMANCE	Up to 5.3 TFLOPs
MEMORY CAPACITY	8 GB GDDR5
DISPLAY CONNECTORS	4x DP 1.4
DISPLAY SUPPORT	4 x 4096X2160@120HZ 4 x 5120x2880@60HZ
VR READY	



# QUADRO P4000 VS M4000

	M4000	<b>P4000</b> <small>NVIDIA VR READY</small>	Benefits
GPU Architecture	Maxwell	<b>Pascal</b>	NVIDIA's latest GPU architecture
# CUDA Cores	2048	<b>17,922</b>	Faster compute & rendering performance
Memory Size	8 GB GDDR5	<b>8 GB GDDR5</b>	Real-Time Interactivity with large, more complex assemblies, visually detailed VR environments
Memory BW	Up to 211 GB/s	<b>Up to 243 GB/s</b>	Move data to and from GPU faster
Display Connectors	4x DP 1.2 + 1x DVI	<b>4x DP 1.4</b>	Enabling 4 5K Displays
Advanced Display	SYNC	<b>Stenciled</b>	Synchronize up to 8 GPUs per system
VR Ready	No	<b>YES</b>	The performance & features to drive immersive VR experiences
Board Power	150 W	<b>105 W</b>	Powerful and efficient GPU
Power Connector	1x 6-pin PCIe	<b>1x 6-pin PCIe</b>	Simplified Connectivity

# QUADRO P4000

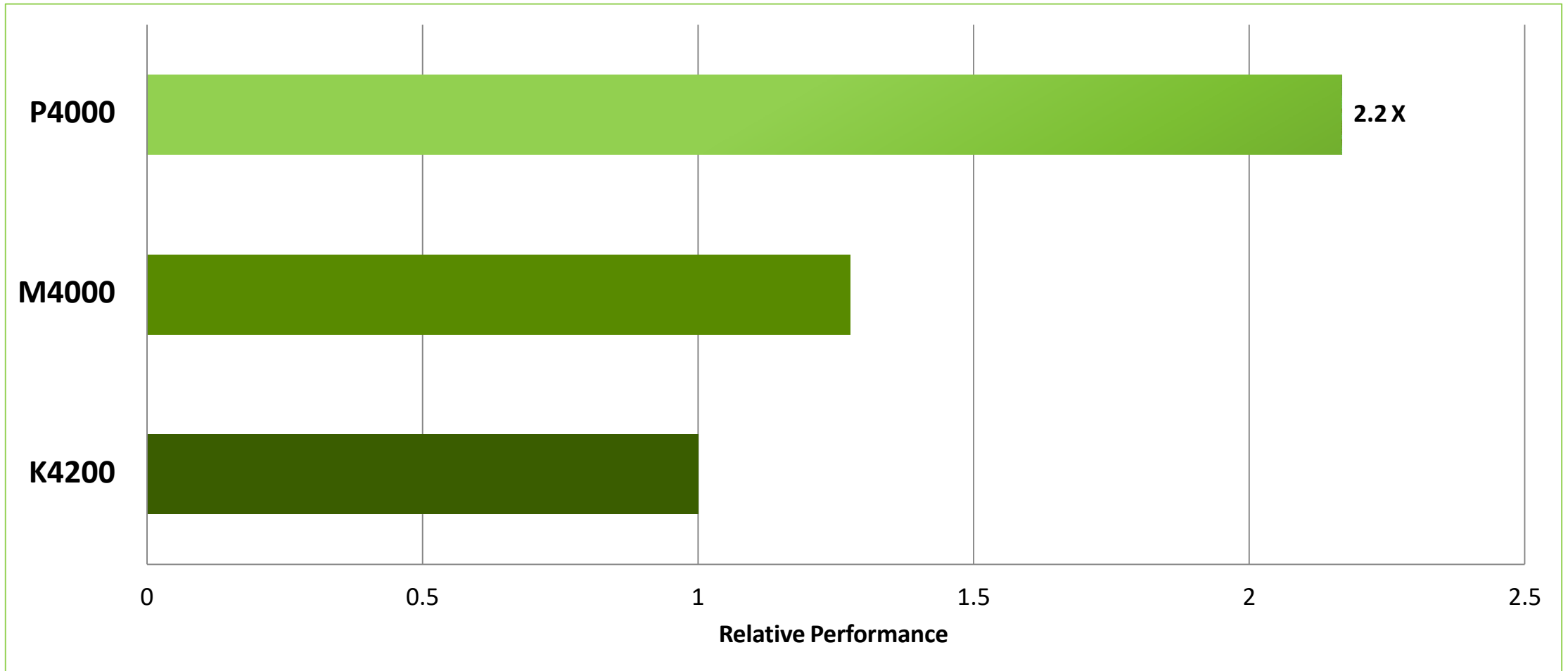


“VR is transforming how we communicate designs and changes to our clients. We are excited about NVIDIA’s new VR Ready Quadro P4000 as it delivers a terrific VR experience and it’s cost-effective. Now even more architects, designers, and contractors will be able to tap into the power of VR.”

— Drew Rebman, Lead VDC Engineer, Hensel Phelps Construction Company

# NVIDIA P4000 VS PREVIOUS GENERATION

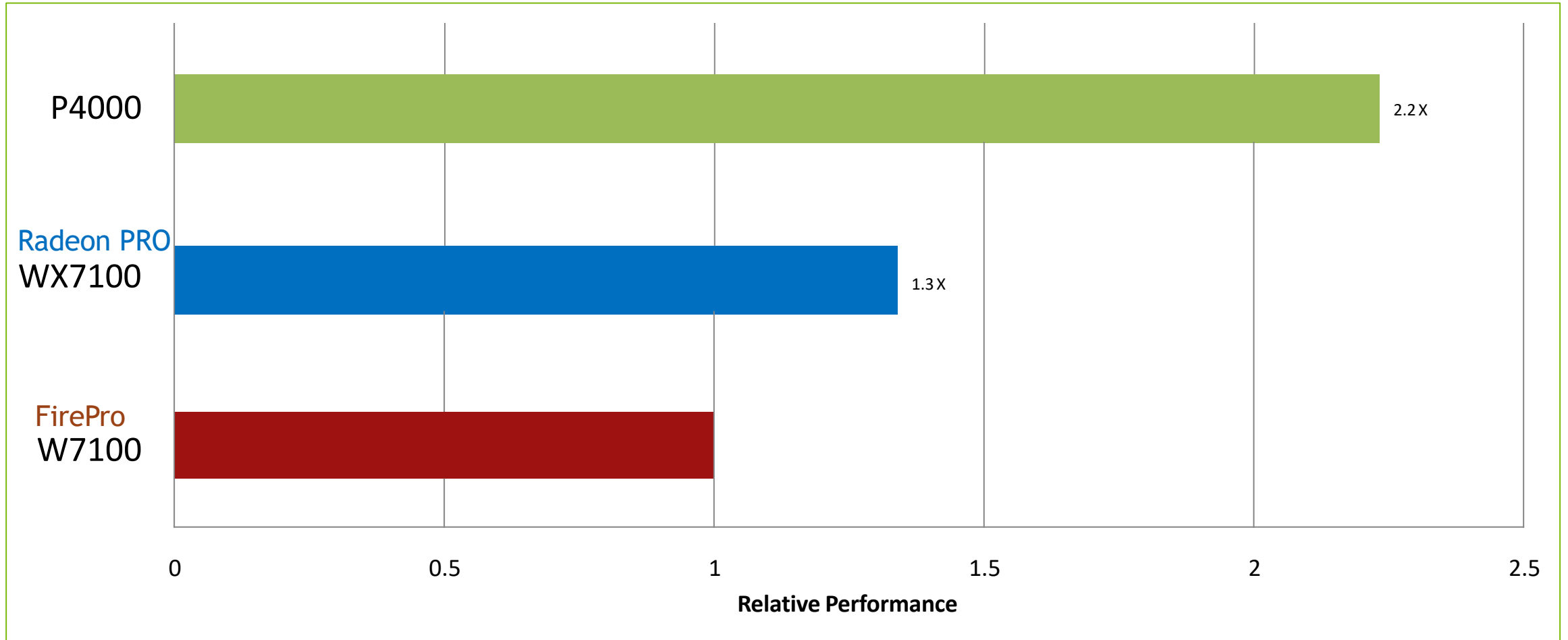
SPECviewperf 12 Performance: P4000 > 2X faster than K4200\*



\*based on SPECviewperf 12 Geomean of all test scores

# NVIDIA P4000 VS AMD WX7100

SPECviewperf 12 Performance: P4000 > 66% faster than Radeon Pro WX7100\*



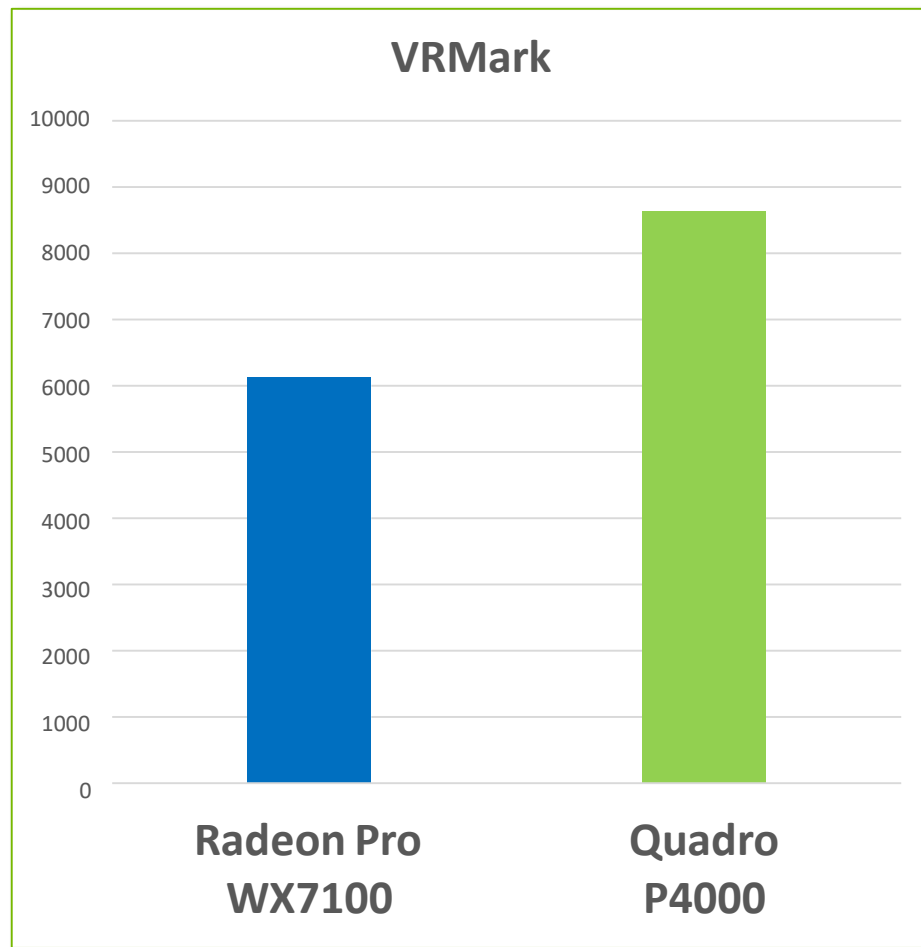
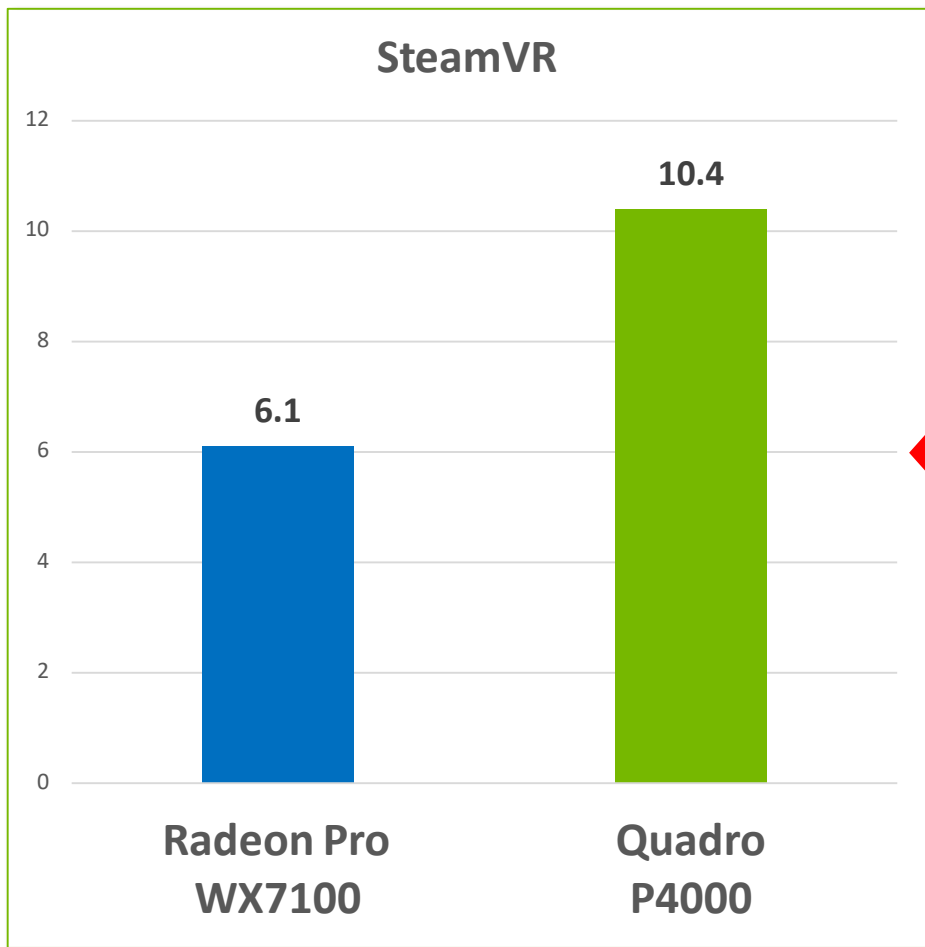
\*based on SPECviewperf 12 Geomean of all test scores

Tests run on an Intel Xeon E5 2697 V3 CPU Hz (3.6GHz turbo), 32GB RAM, Win 10 64bit Anniversary Update. AMD driver 16.Q4, NVIDIA driver 375.86. Performance testing completed with publicly available SPECviewperf@ 12 benchmark information

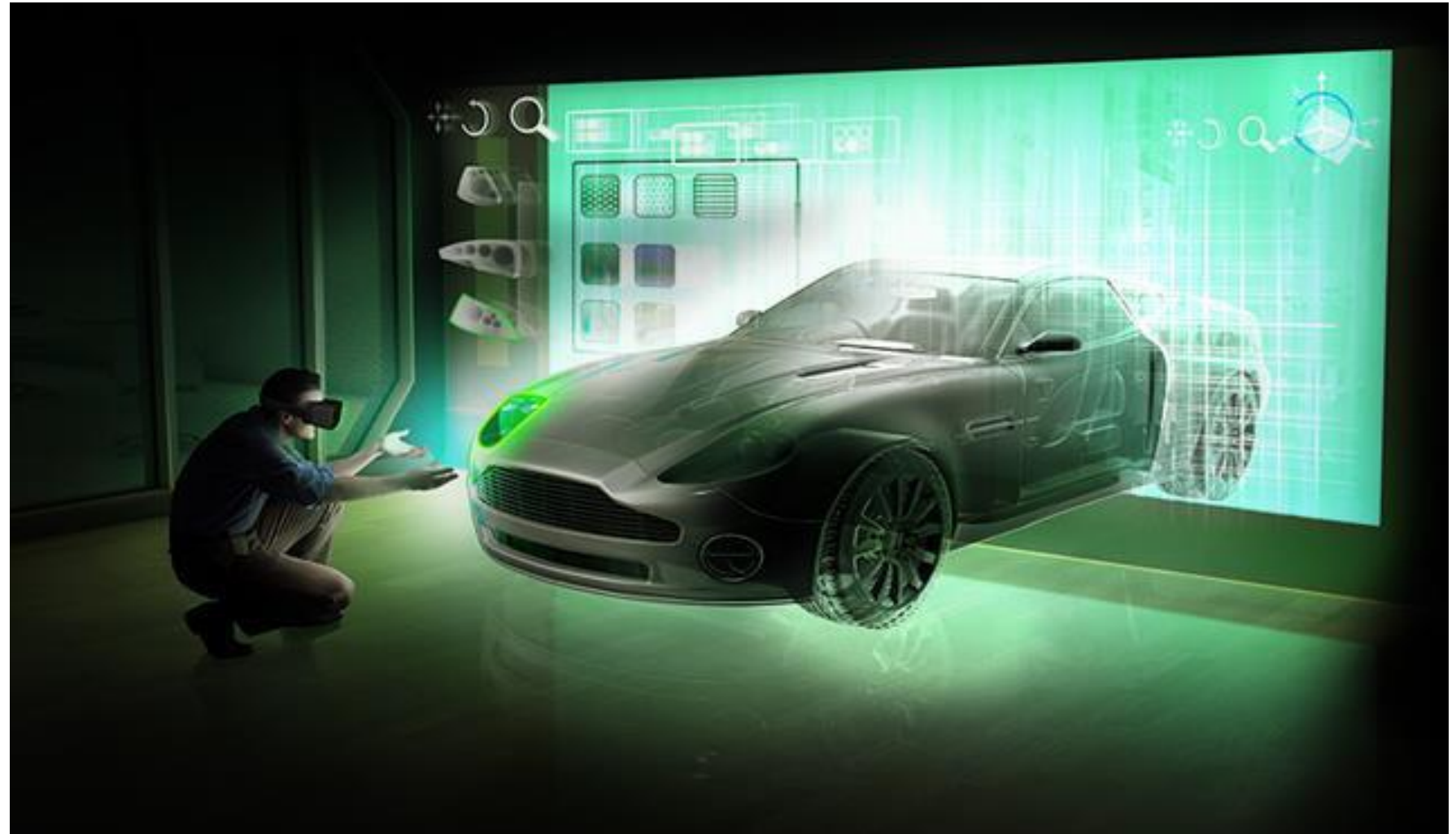
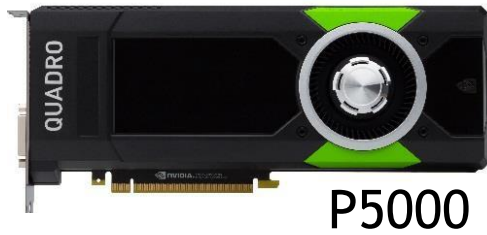


# NVIDIA P4000 VR READY

## Industry Leading Single Slot VR Performance



# QUADRO VR: AS REAL AS IT GETS



# QUADRO VR READY SOLUTIONS

Quadro provides a number of VR Ready solutions for Enterprise VR. While all VR Ready Quadro cards are capable of providing immersive VR experiences, certain advanced VR features, such as Simultaneous Multi Projection (SMP), are only available on specific Pascal-based cards. Developers and end users should select a solution that provides the features required for their specific application.

Feature	P4000/5000/6000	GP100/M6000/M5000
Simultaneous Multi Projection (SMP)	Yes	No
Single Pass Stereo	Yes	No
Multi-res shading	Yes	Yes
VR SLI	Yes	Yes
Lens-matched shading	Yes	No



GP100



P6000



P5000



P4000



M6000 Series



M5000

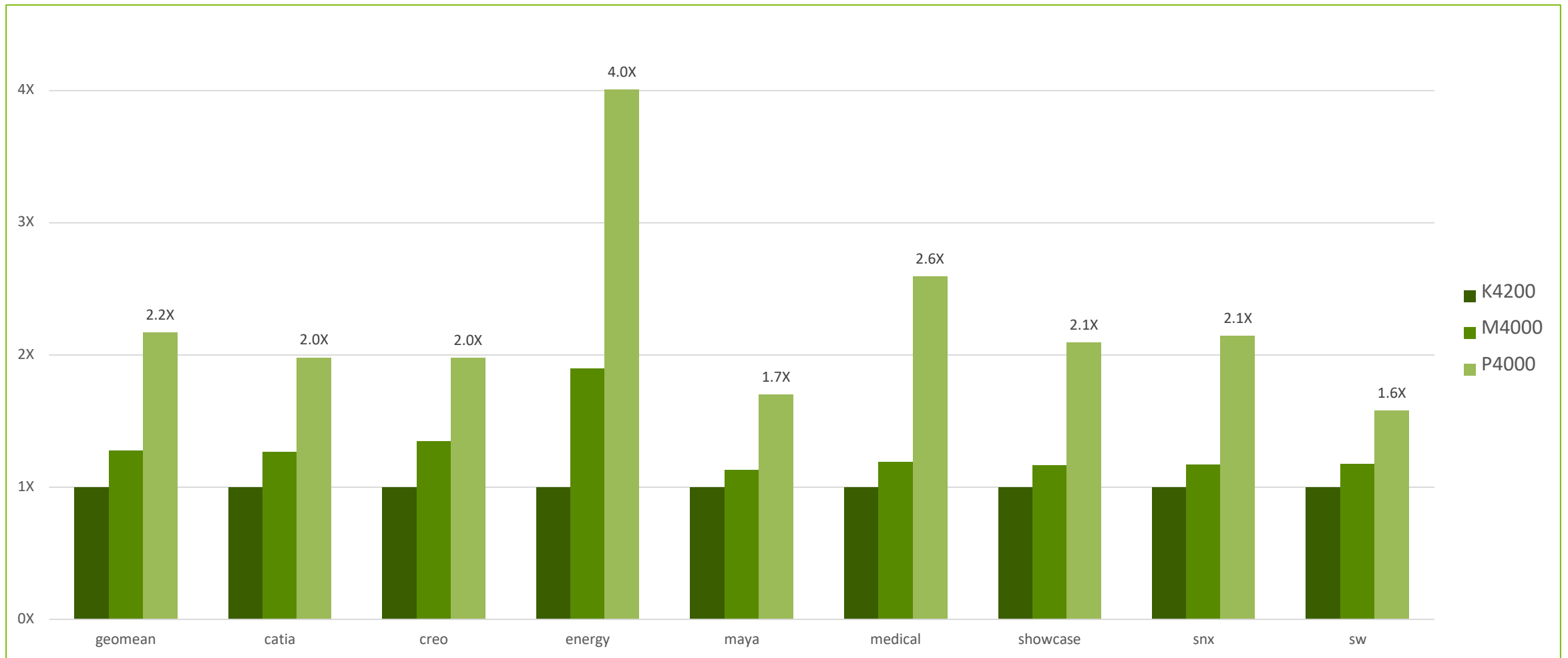
# APPENDIX PERFORMANCE CHARTS

# APPENDIX

- PREVIOUS GENERATION  
CHARTS

# P4000 VS PREVIOUS GENERATION

SPECviewperf 12 Performance: P4000 ~ 2X faster than K4200\*

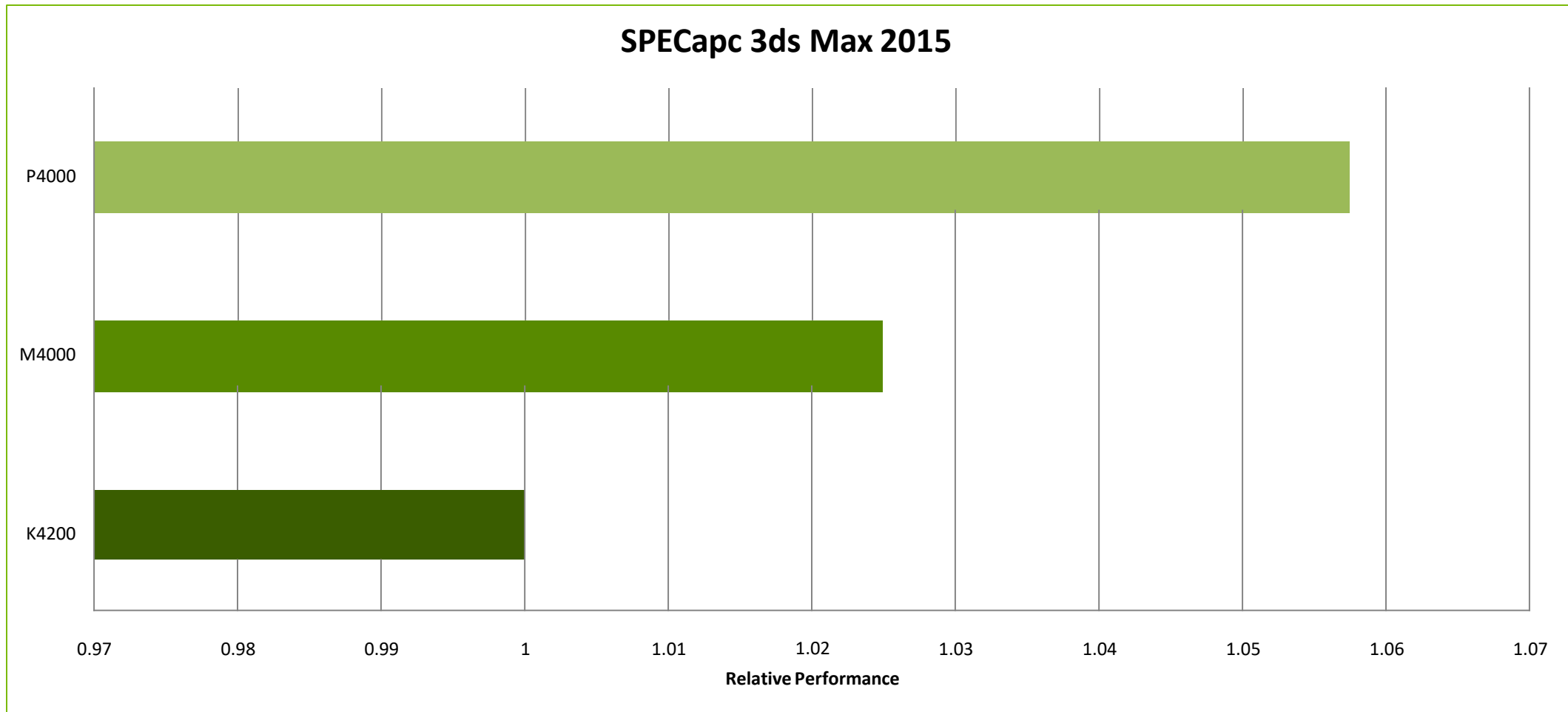


\*based on SPECviewperf 12 Geomean score

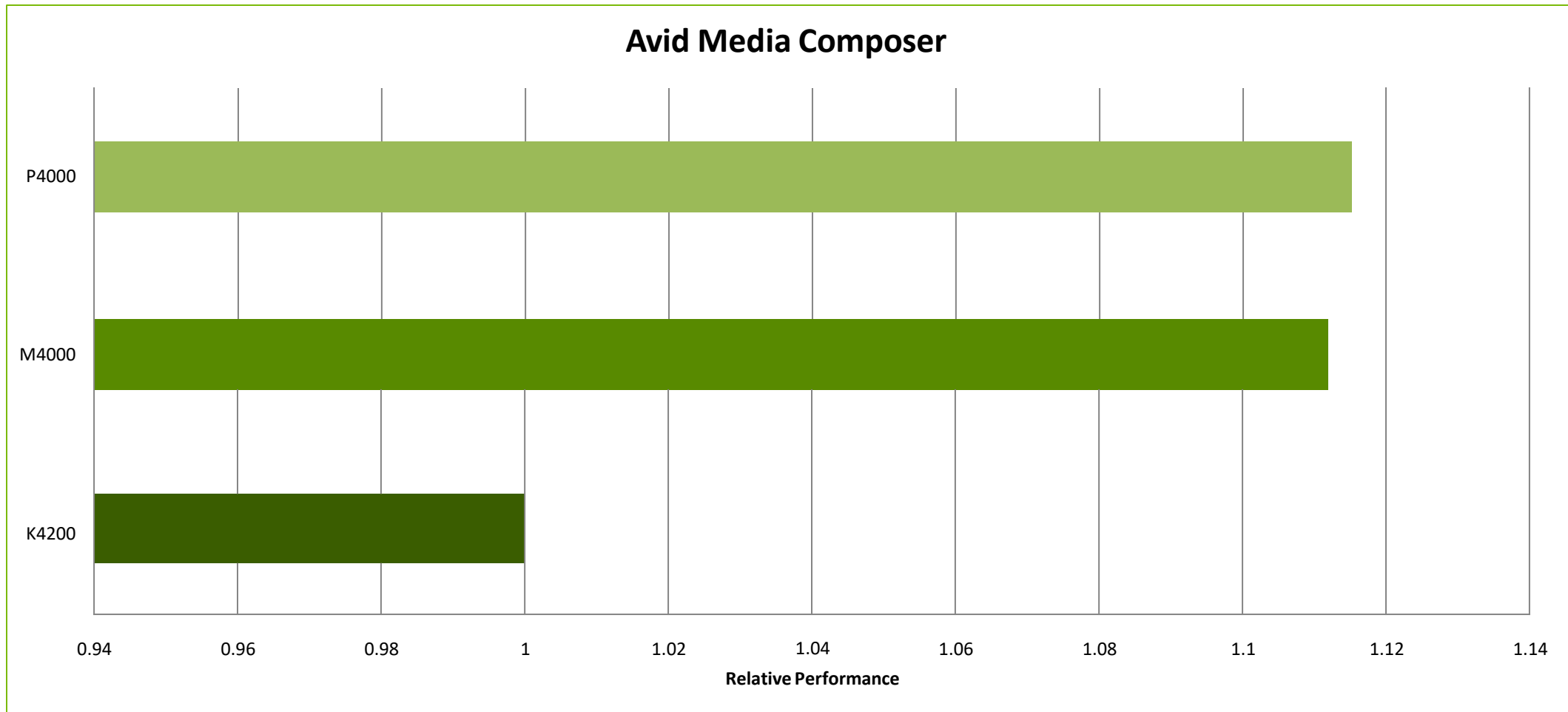
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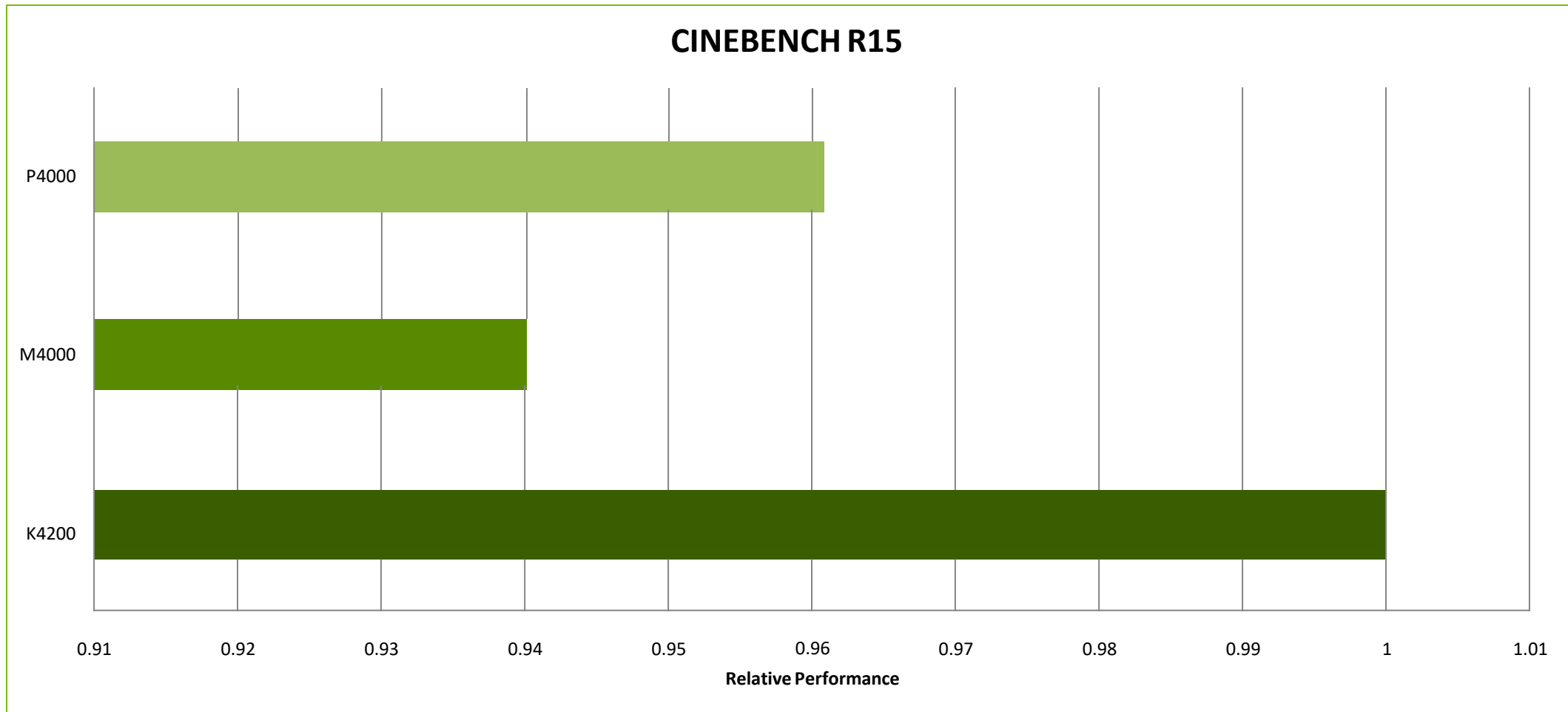


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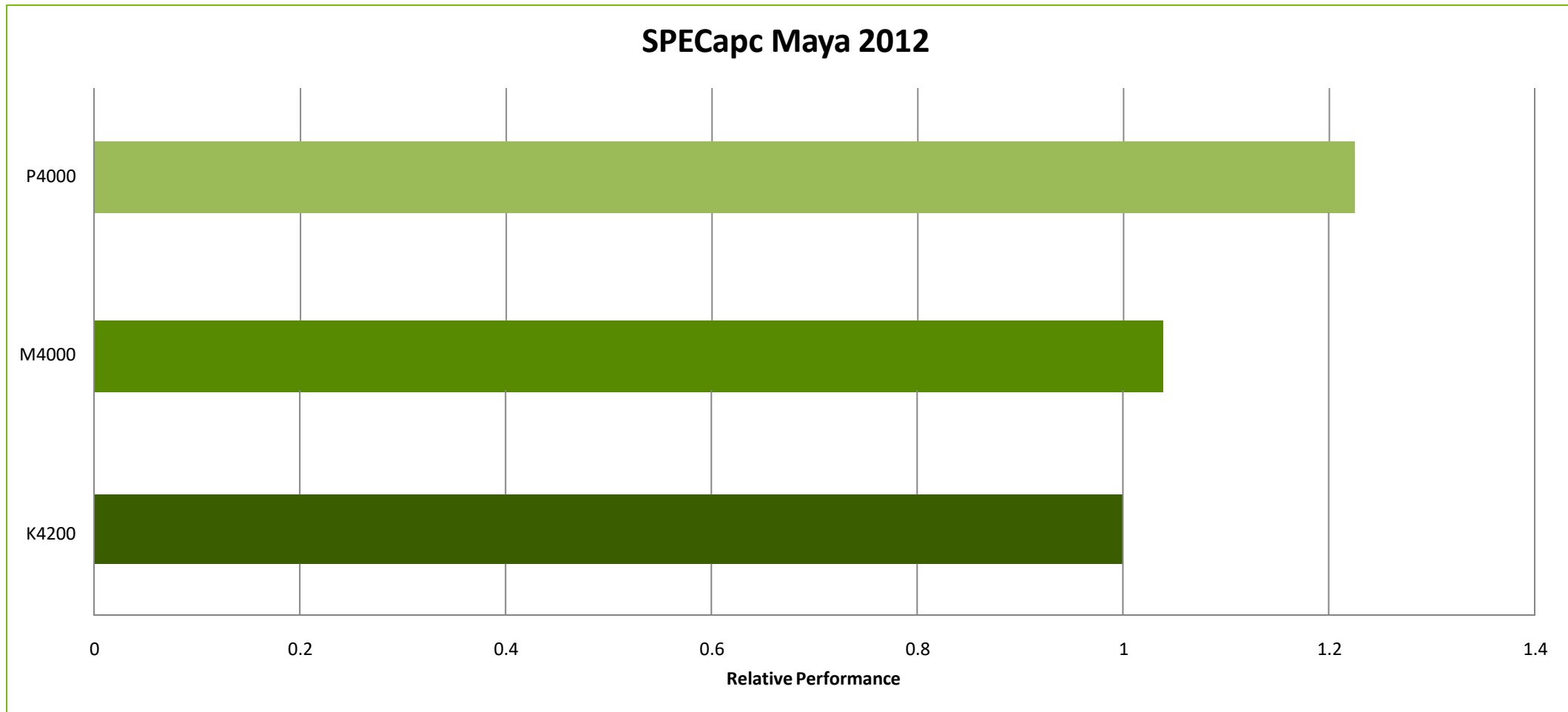




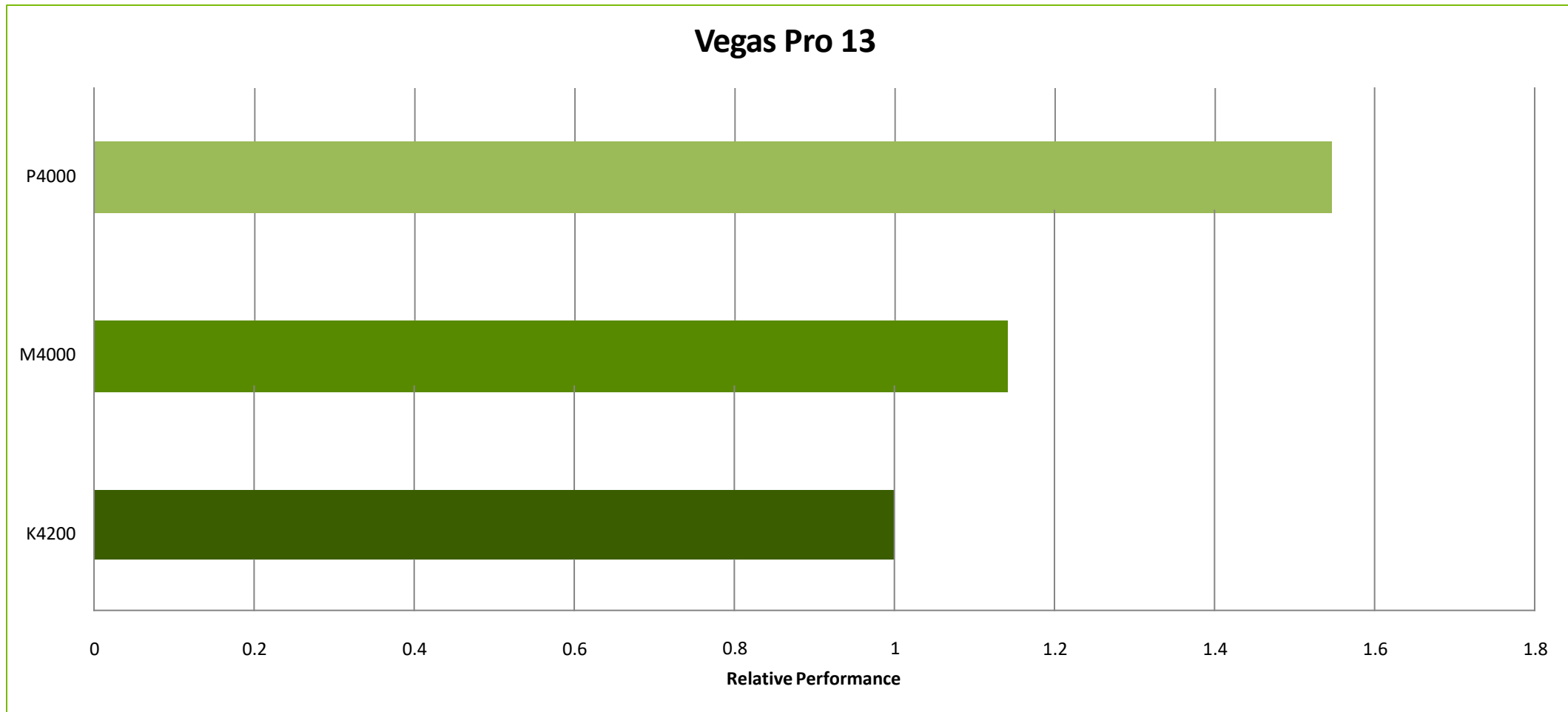
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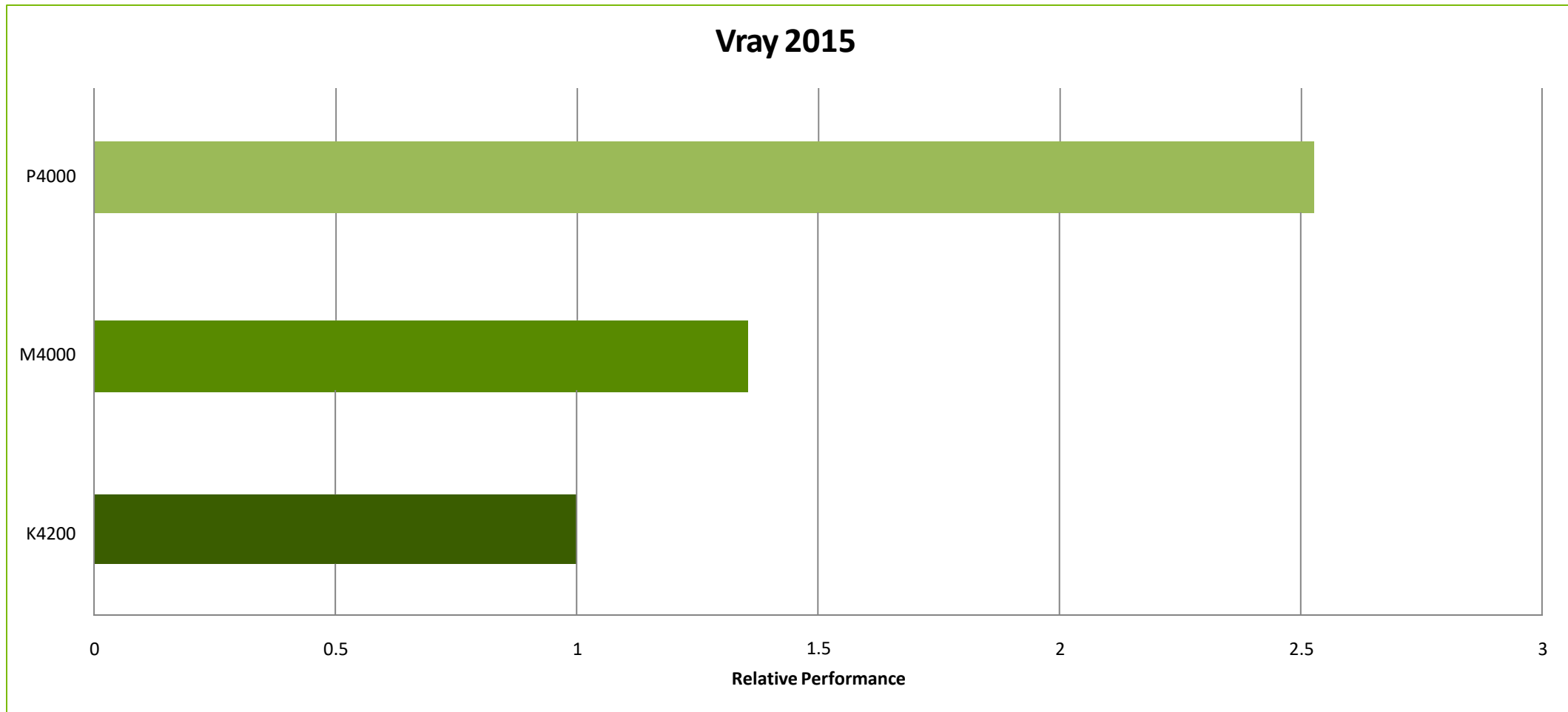
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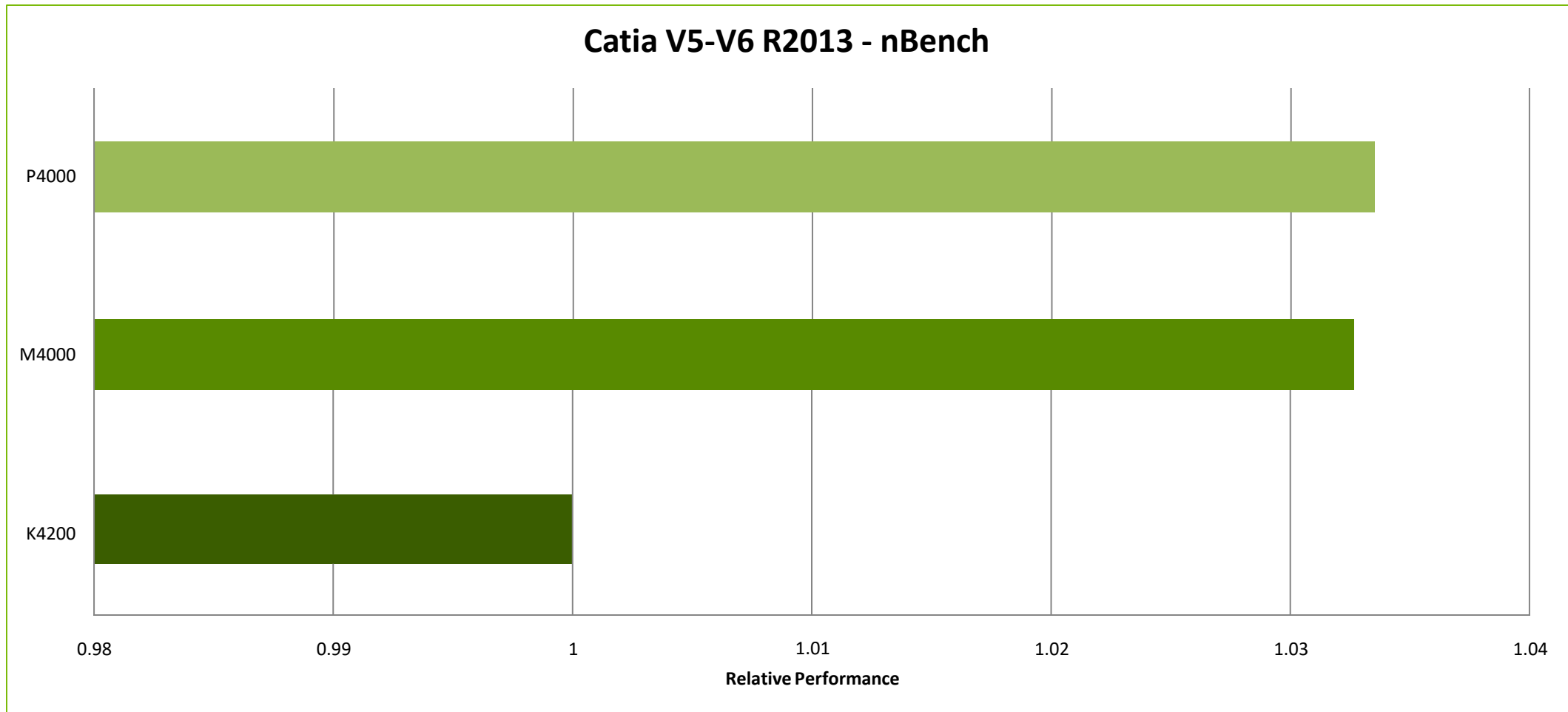
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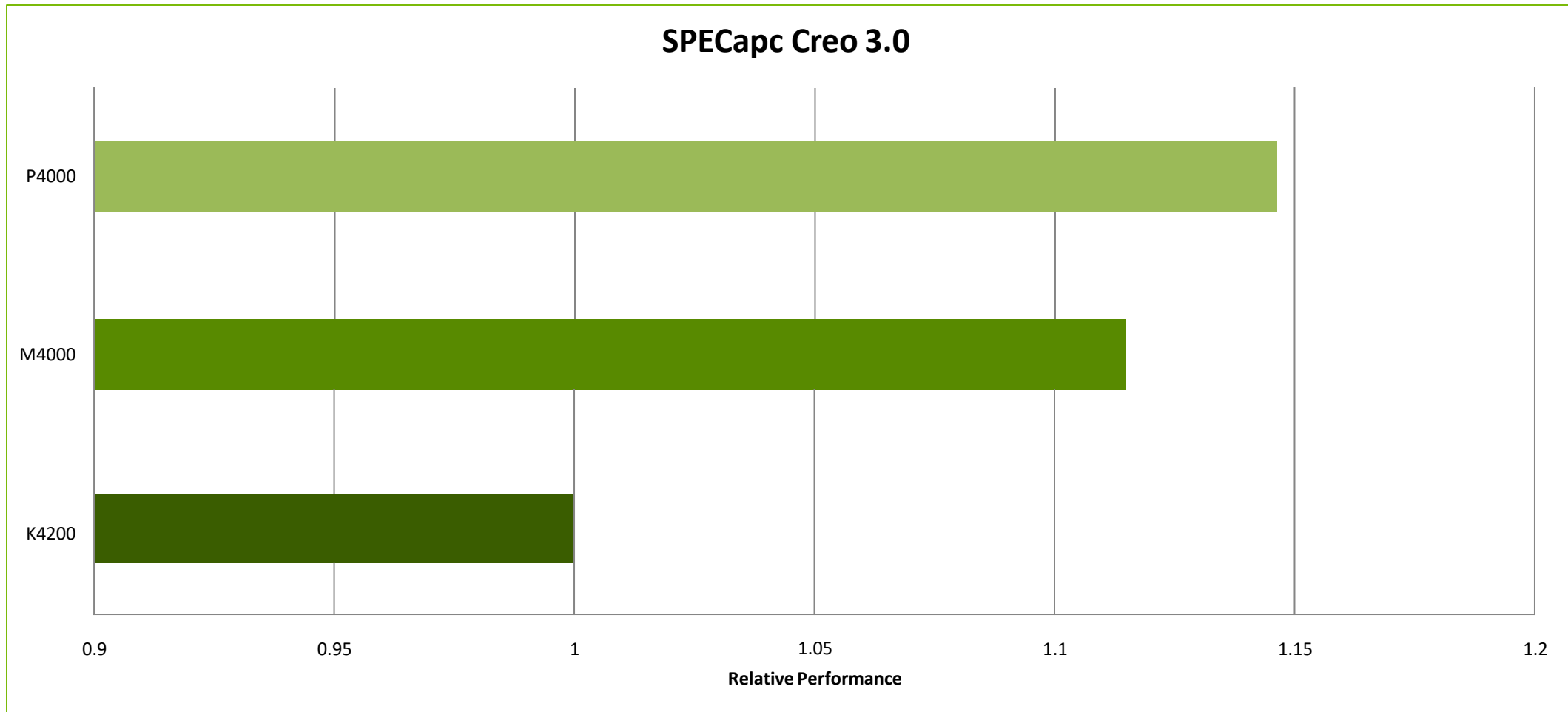
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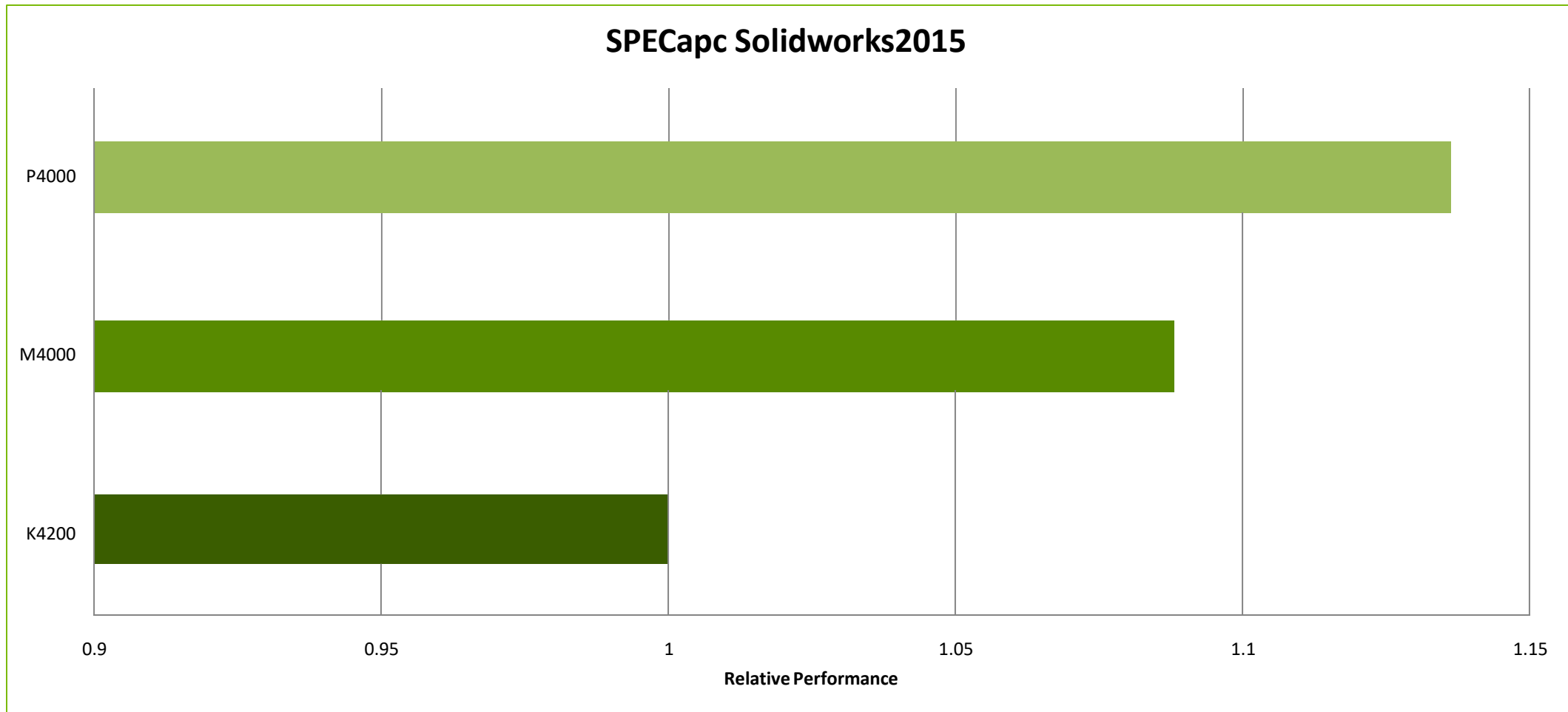
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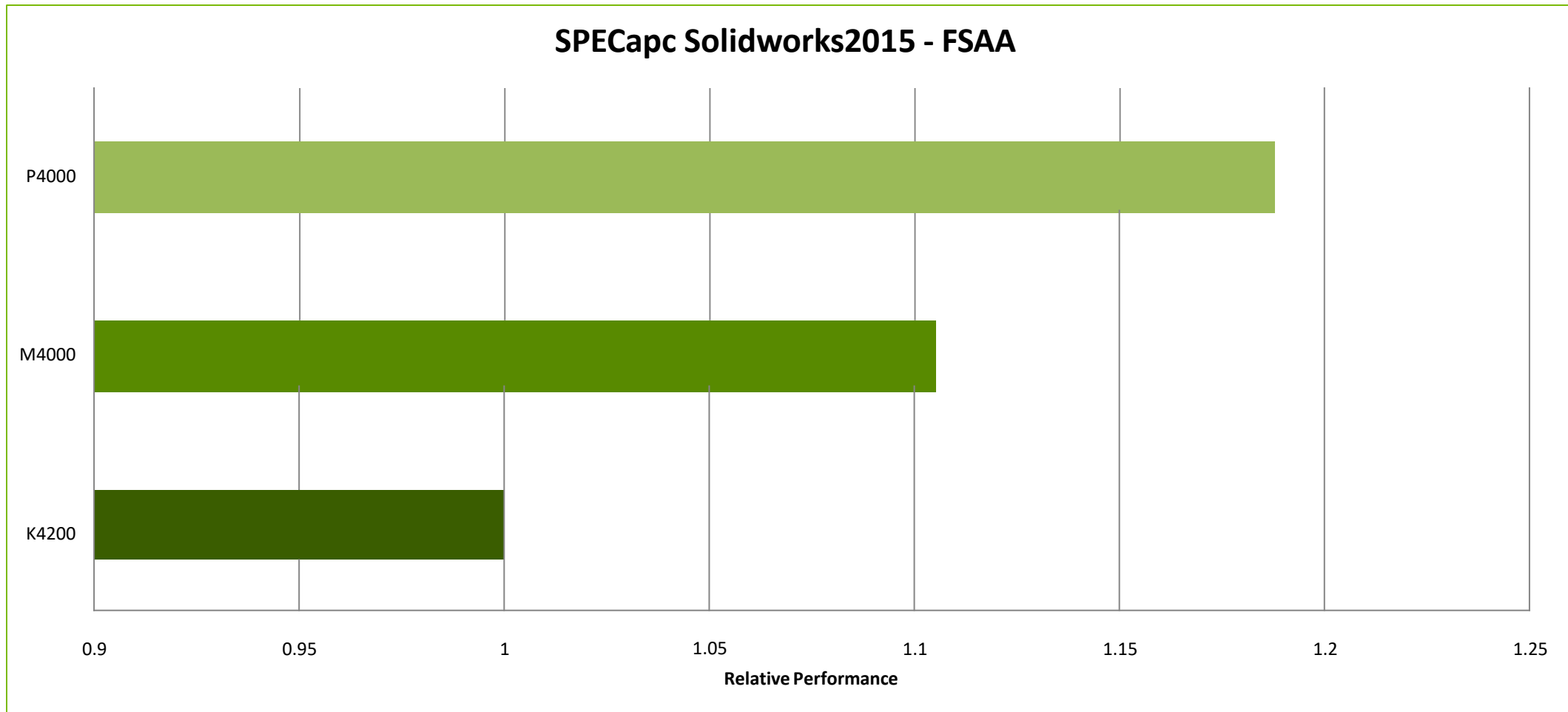
# P4000 VS PREVIOUS GENERATION



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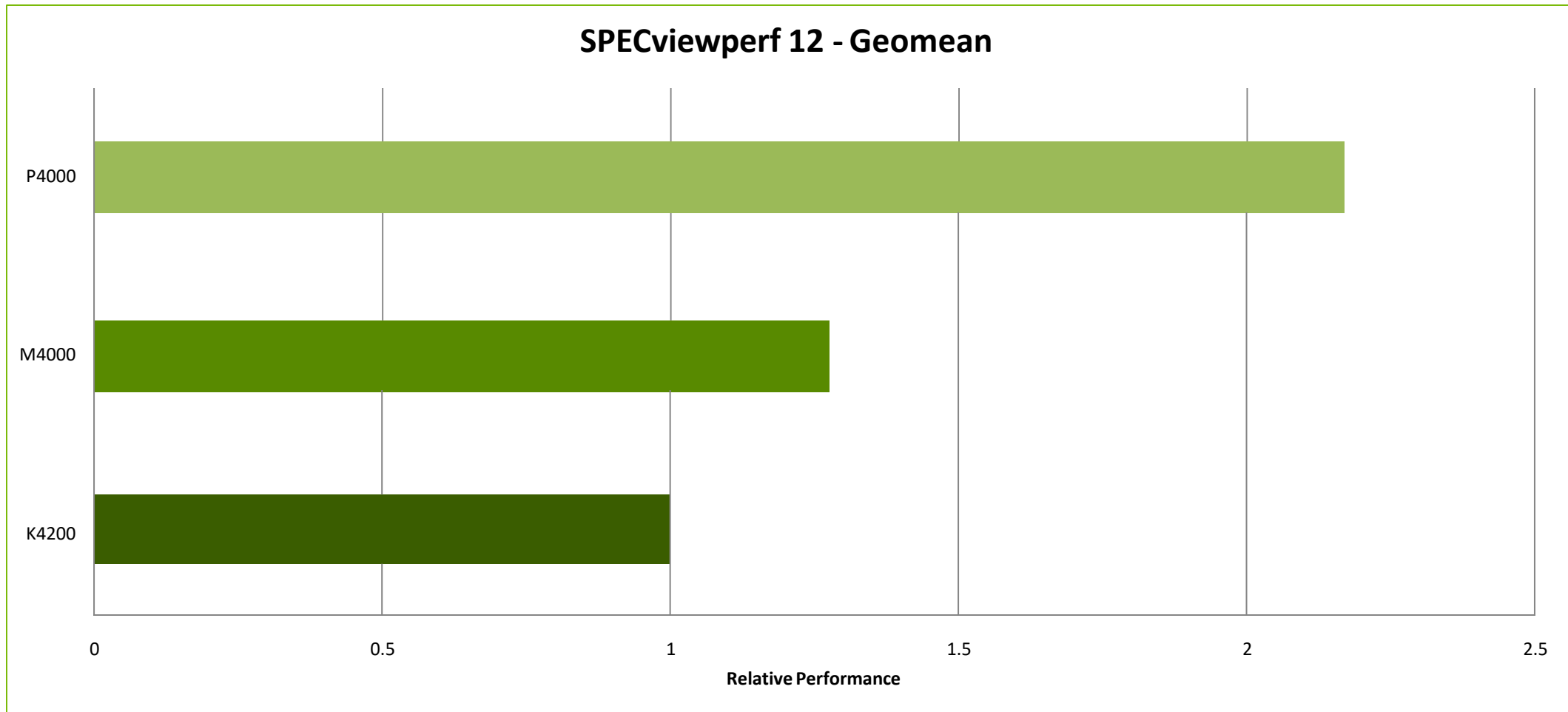


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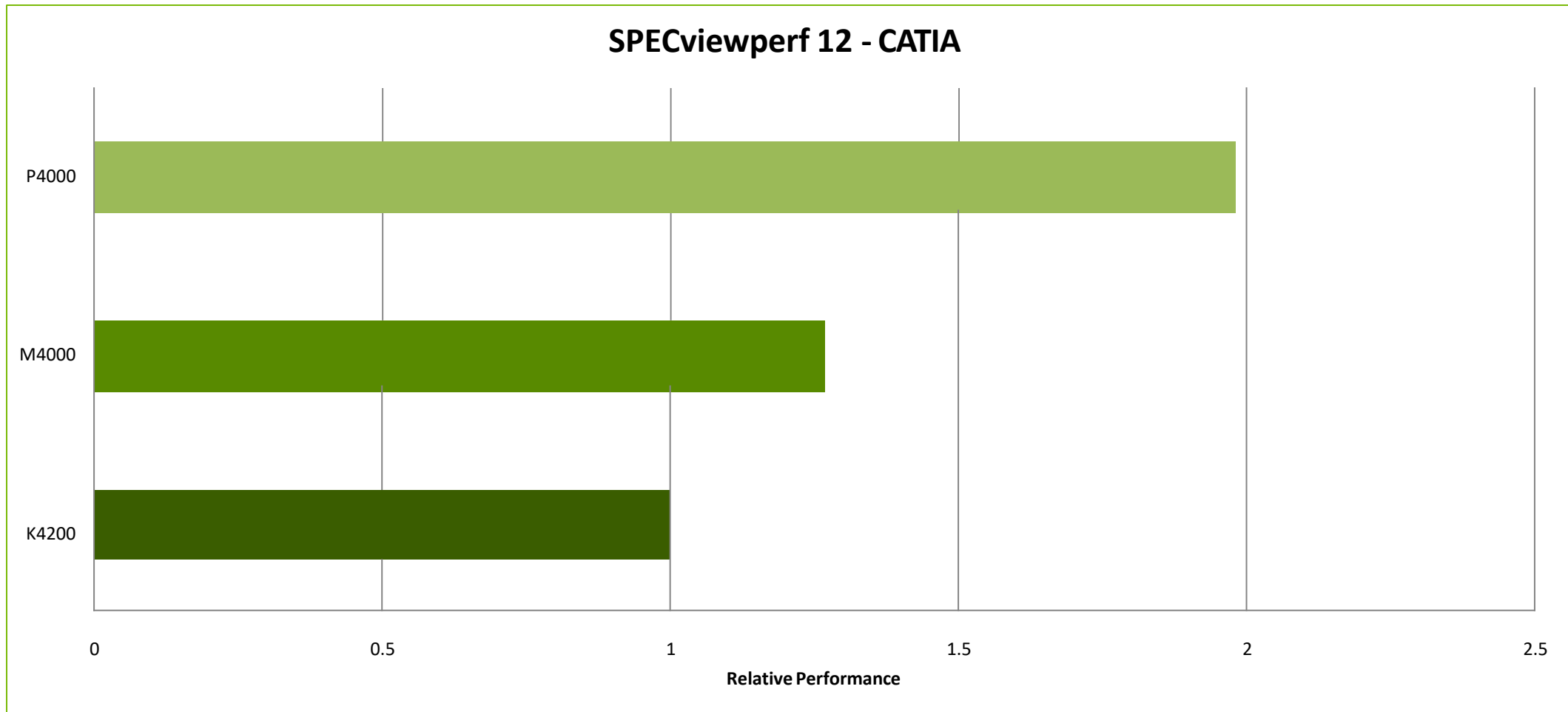
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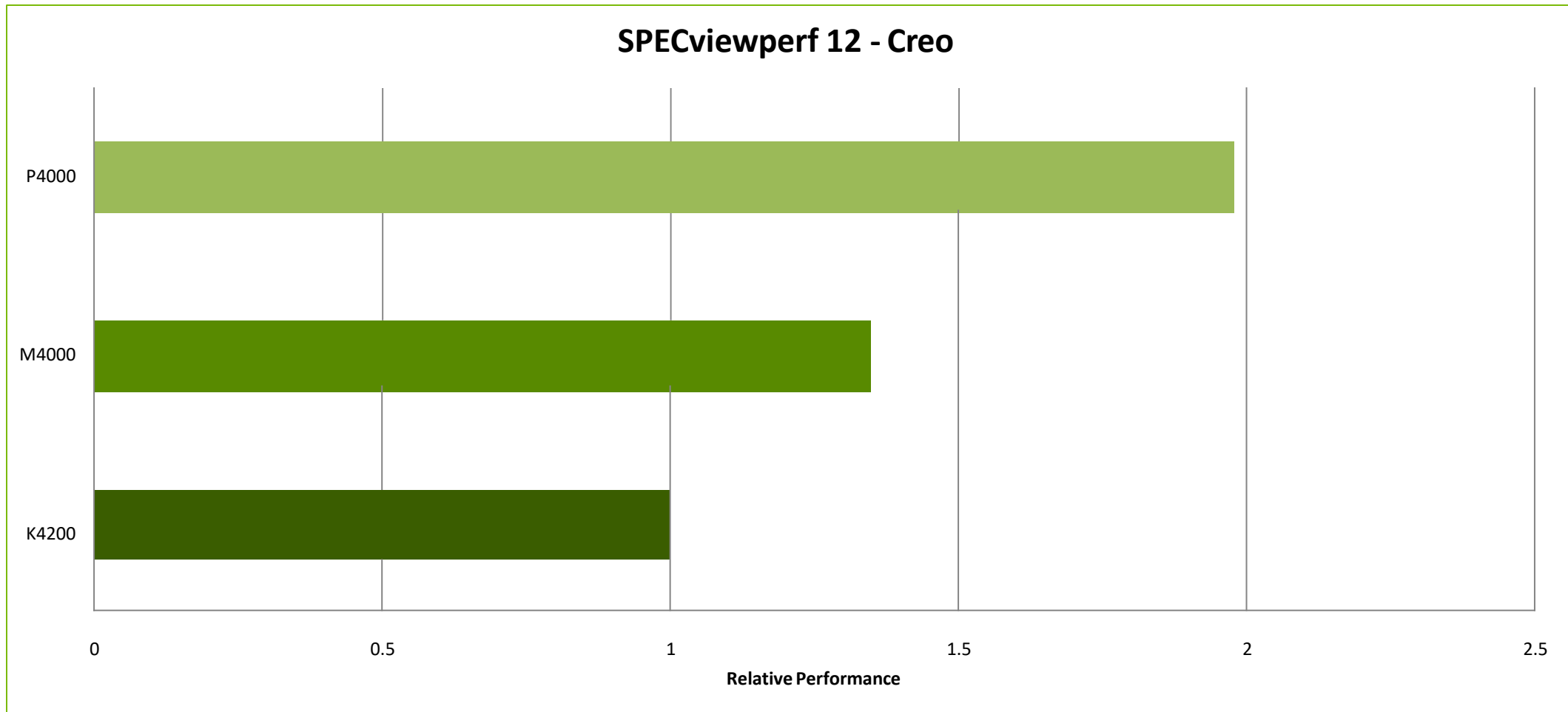
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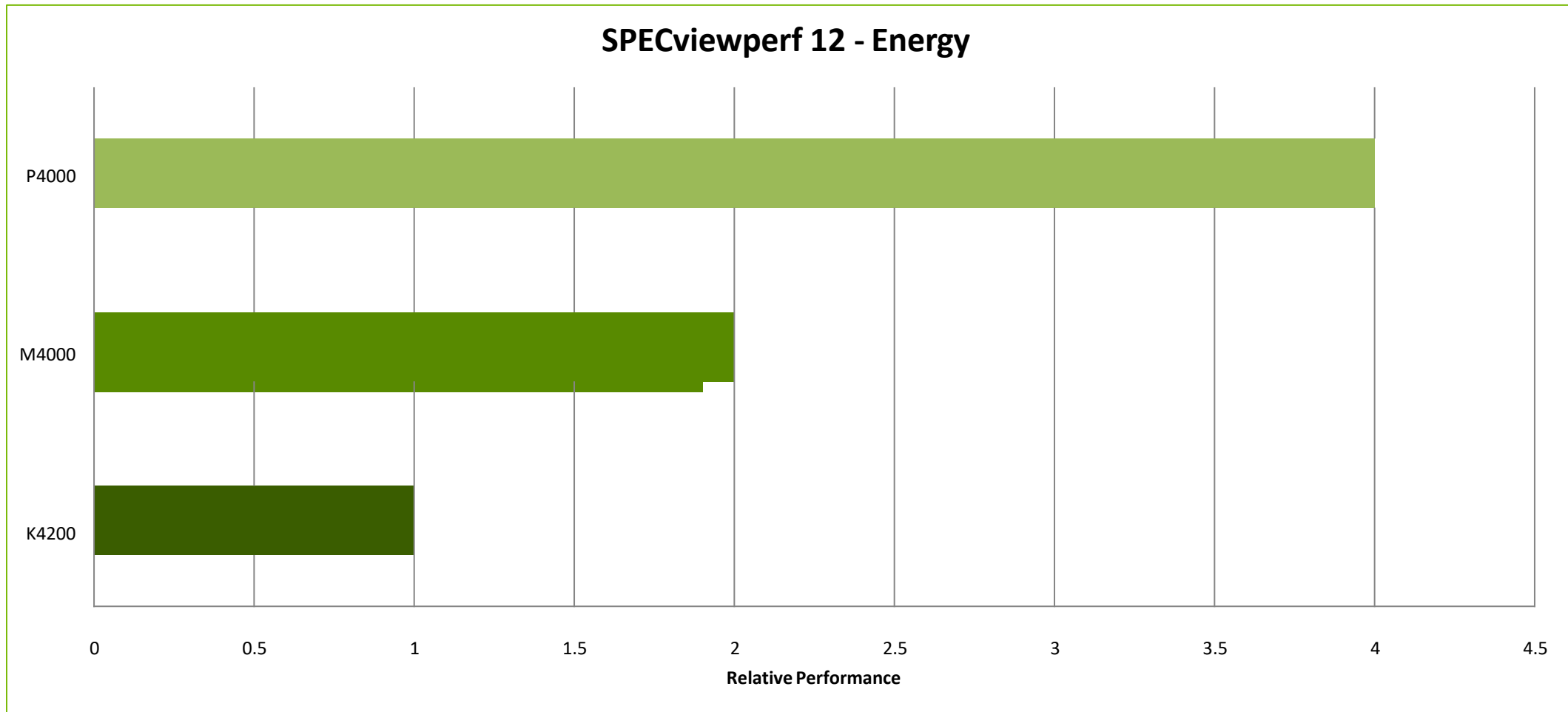
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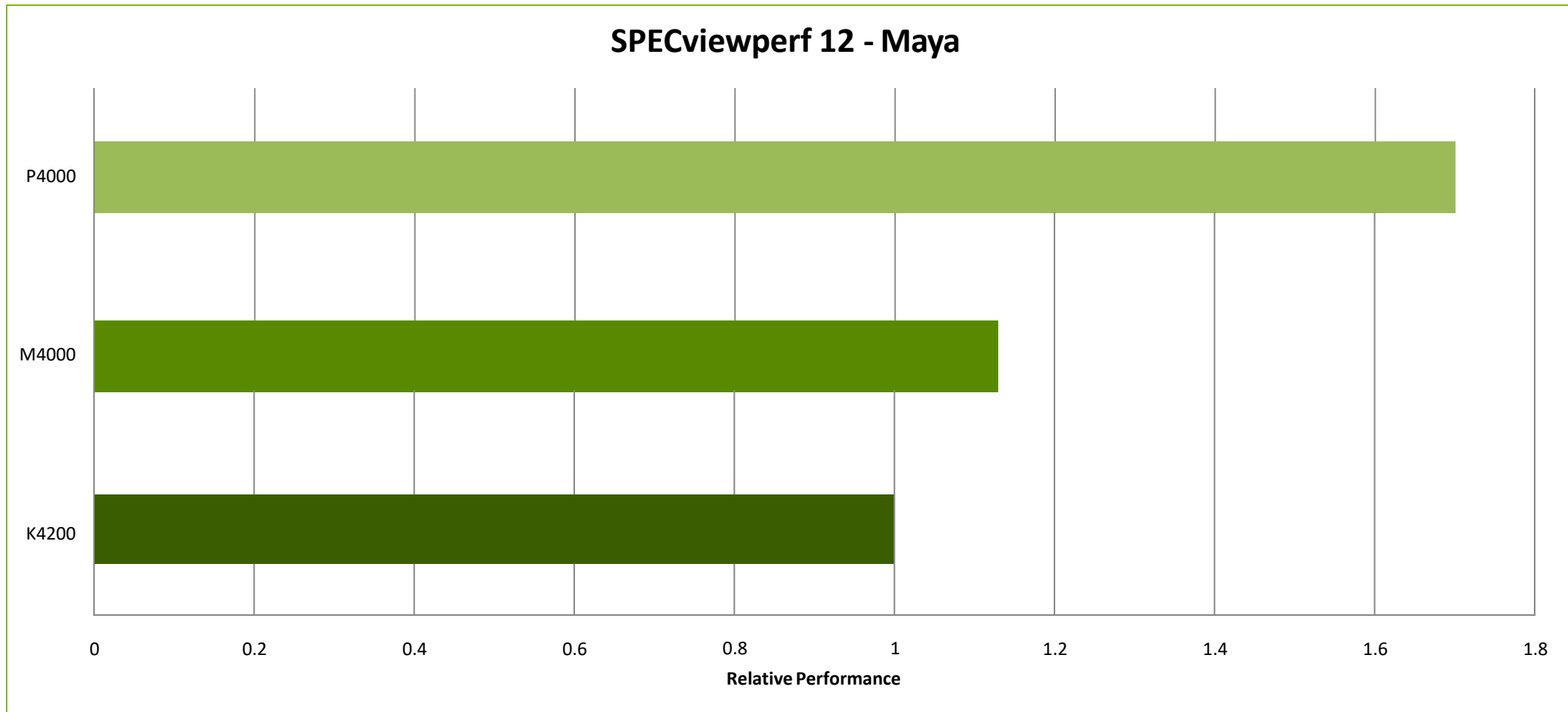
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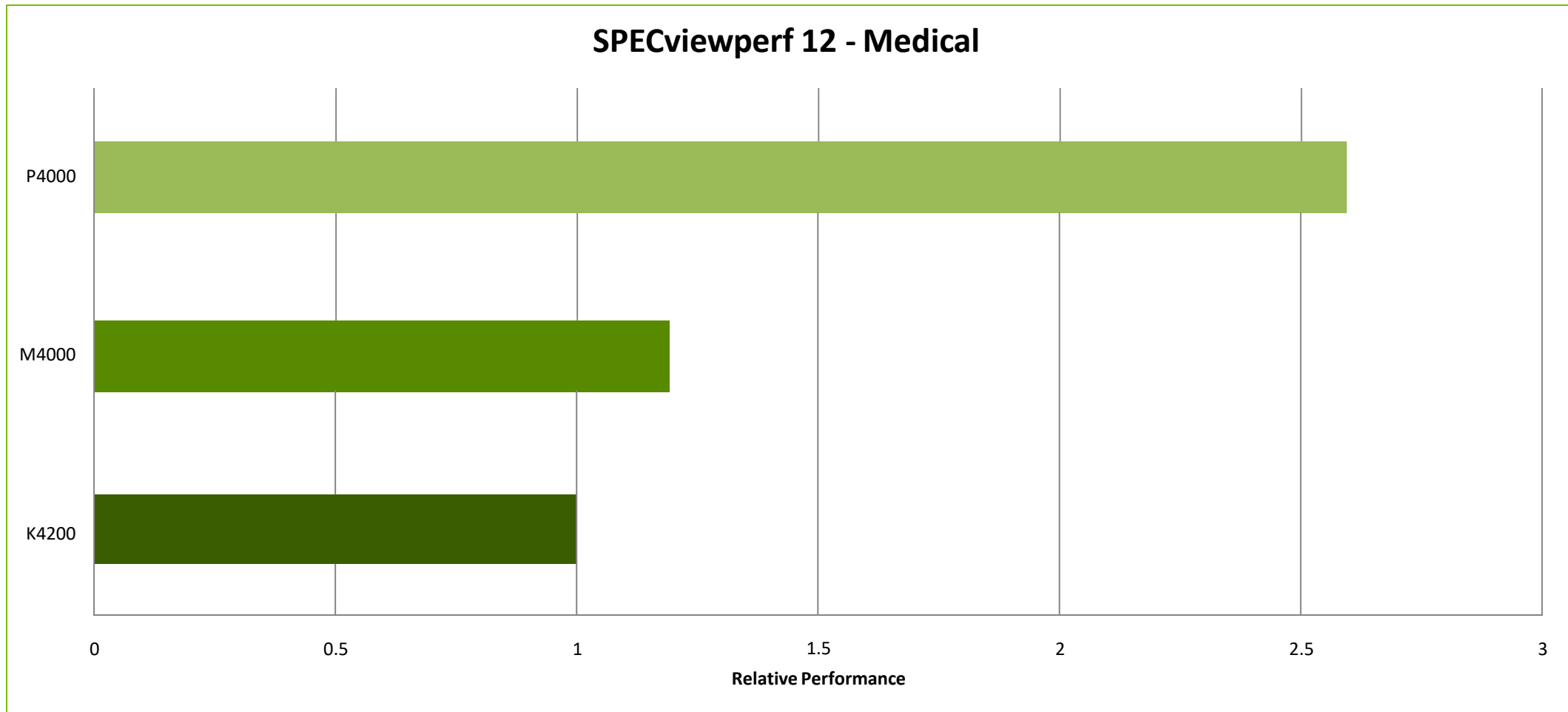
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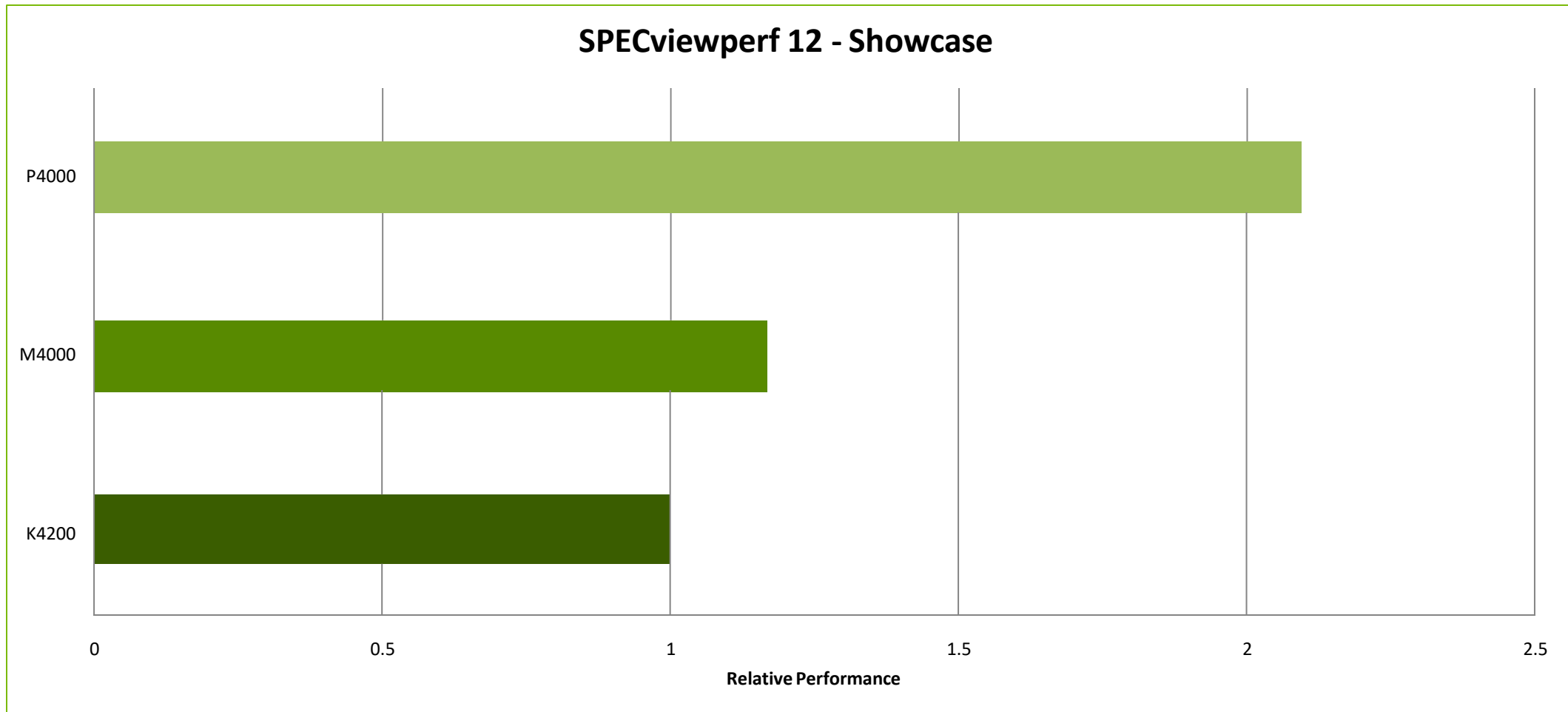
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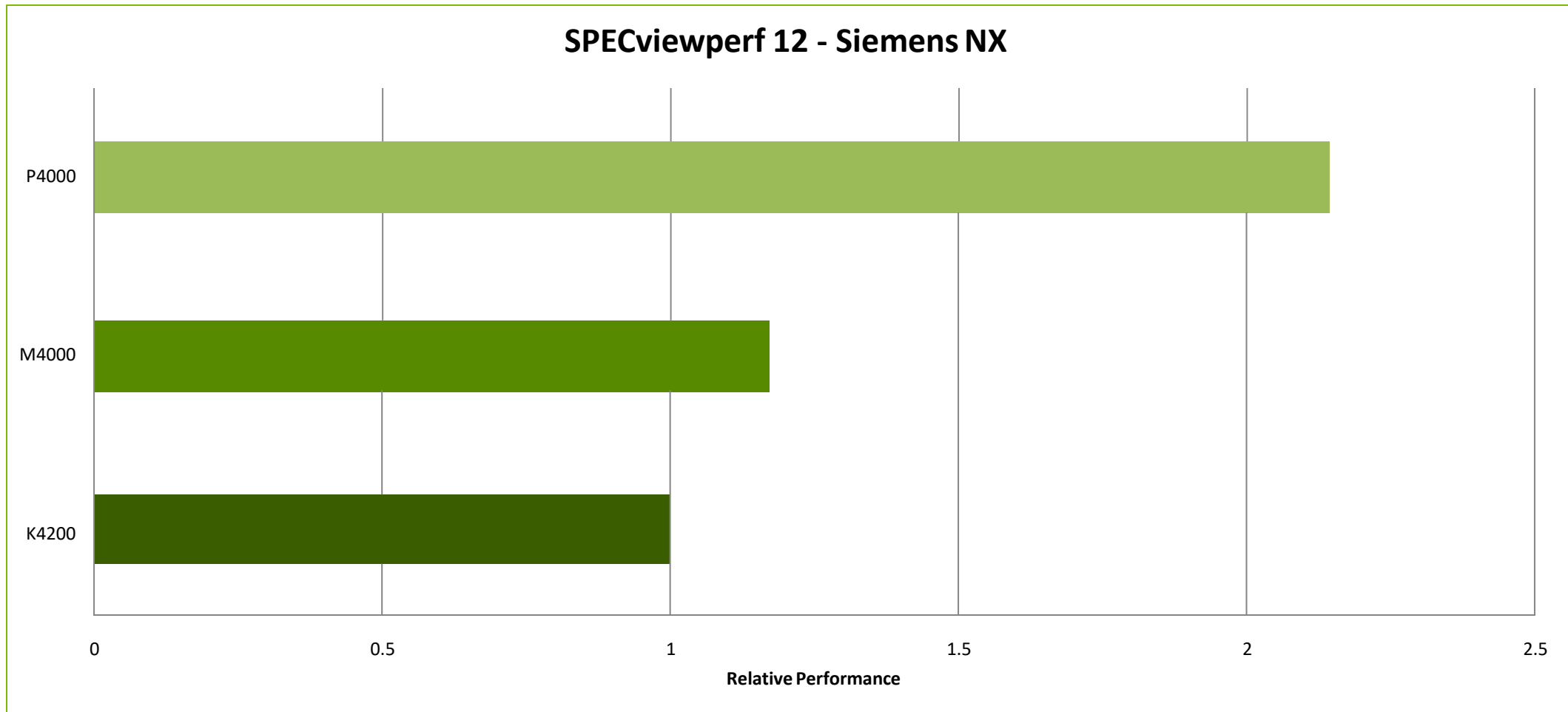
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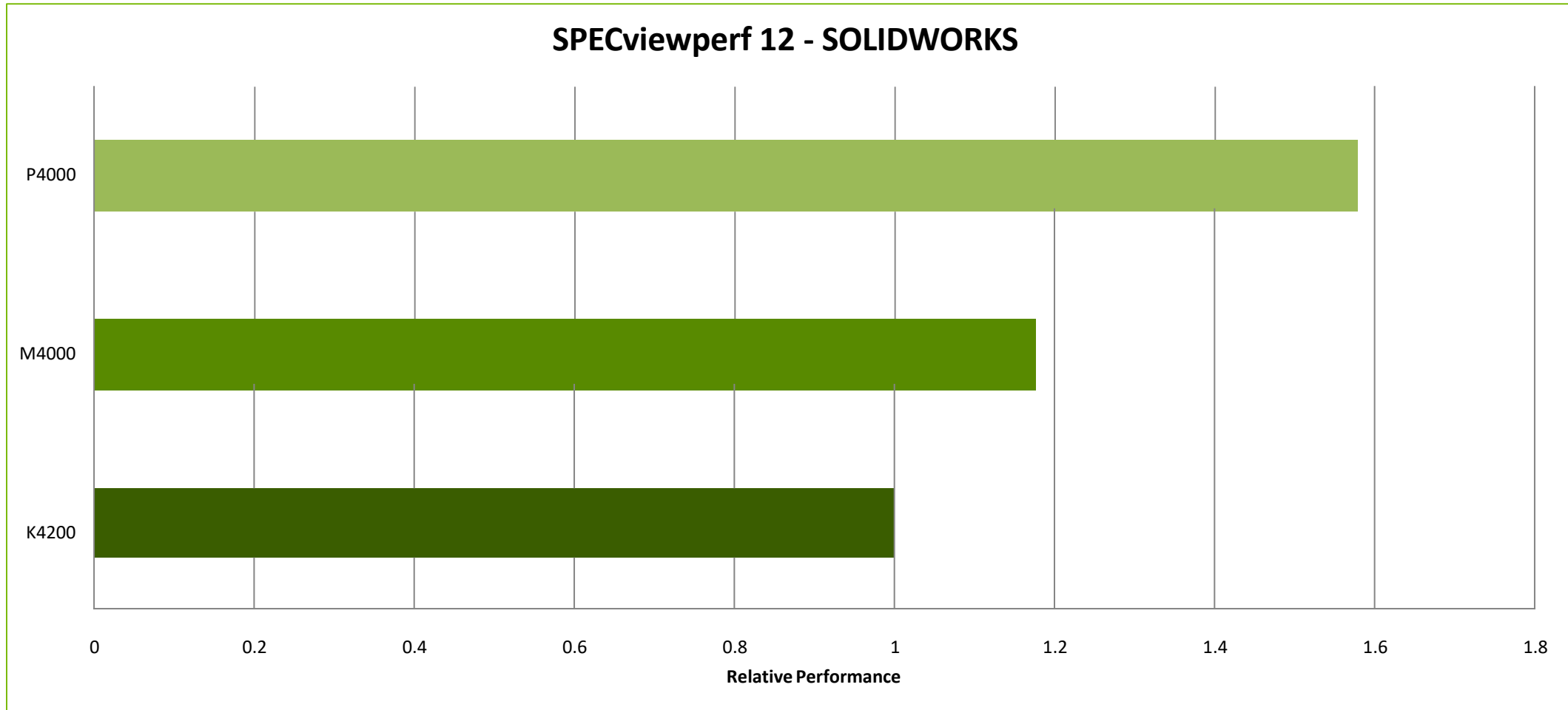


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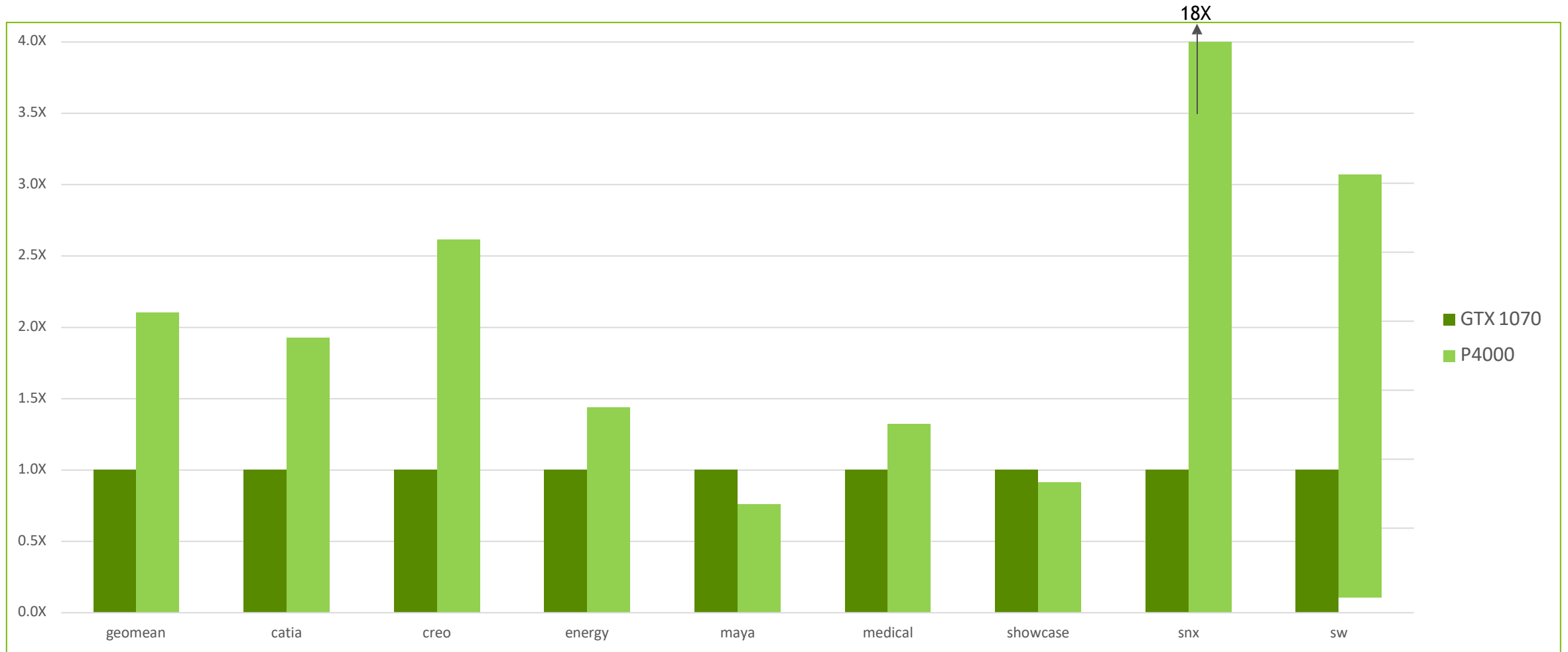


# APPENDIX

- CONSUMER CARD  
COMPARISON CHARTS

# P4000 VS AMD FIREPRO & RADEON PRO

SPECviewperf 12 Performance: P4000 > 2X faster than GTX1070\*

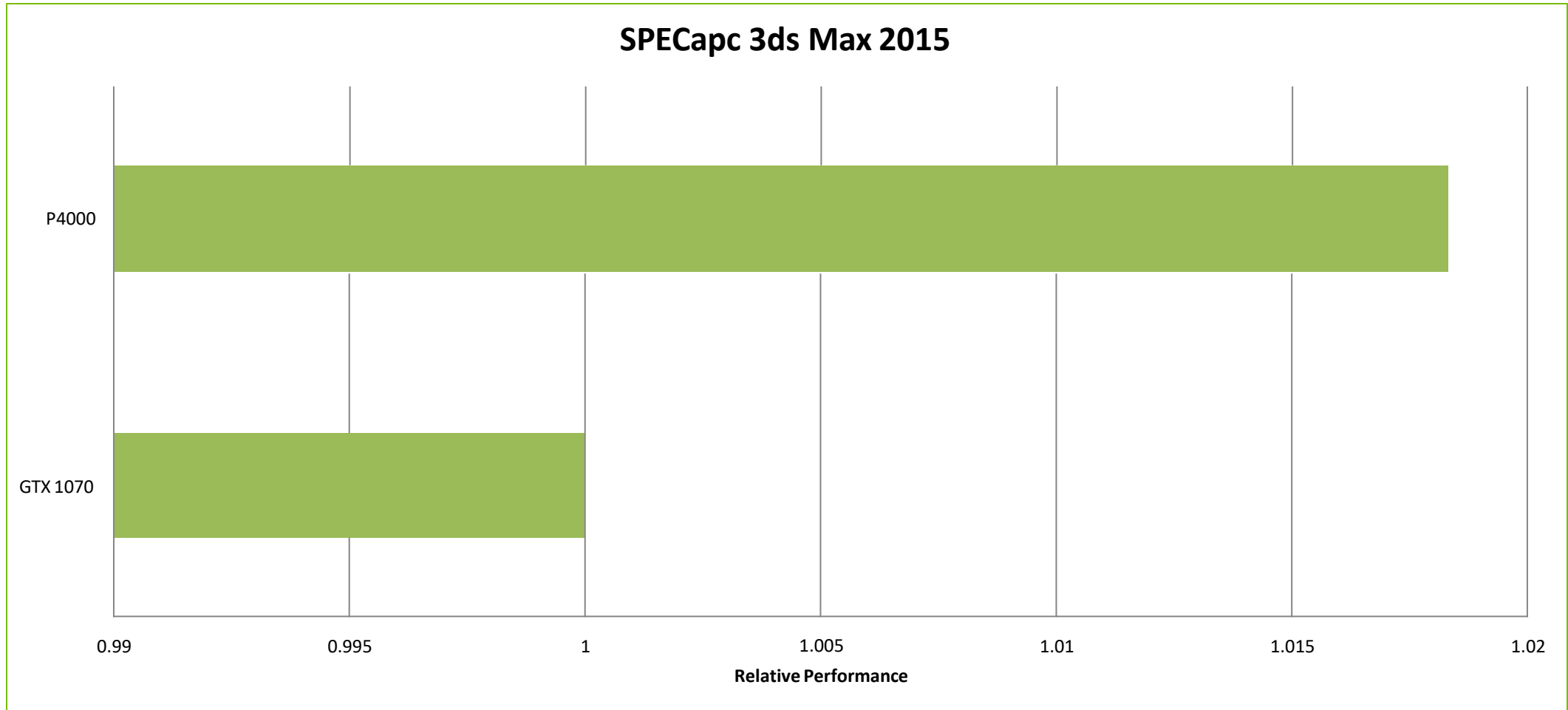


\*based on SPECviewperf 12 Geomean score

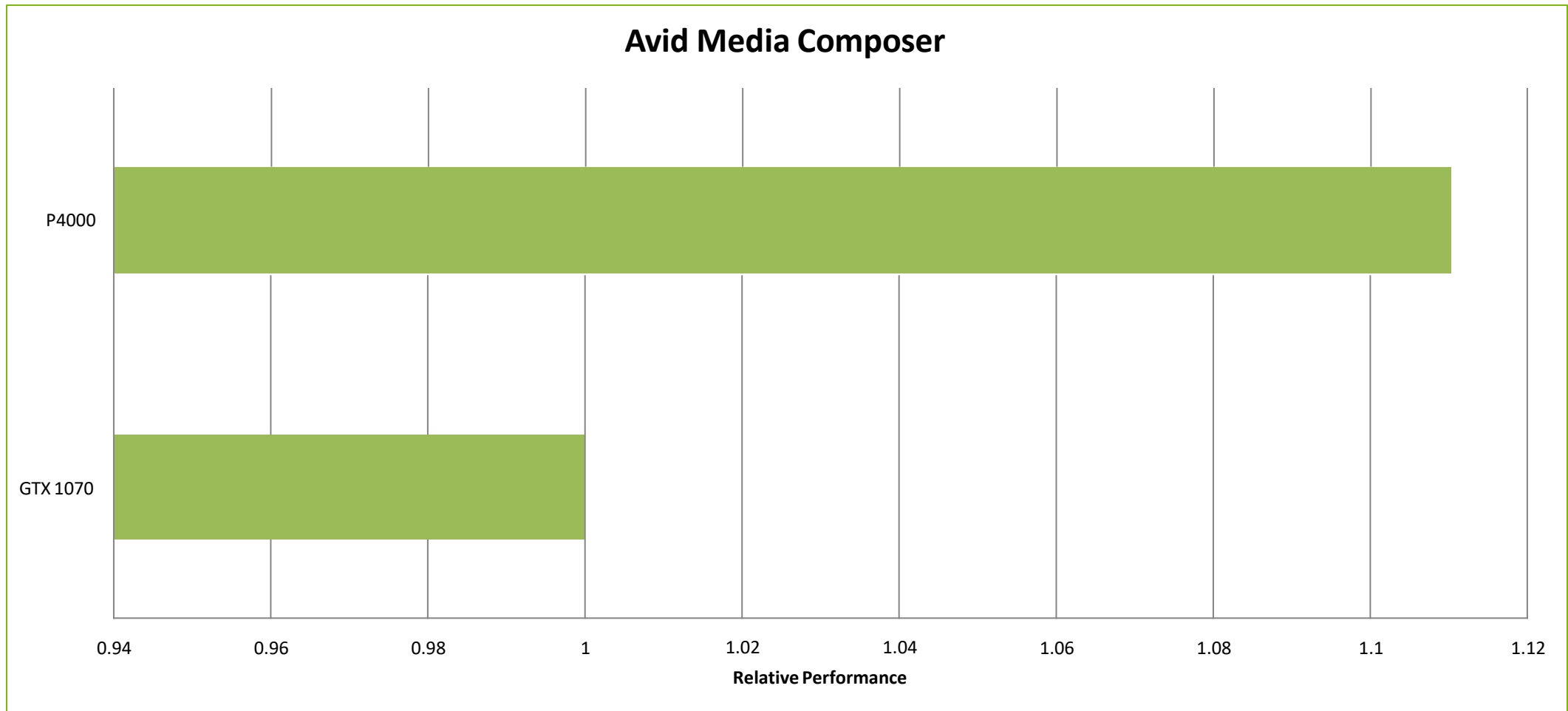
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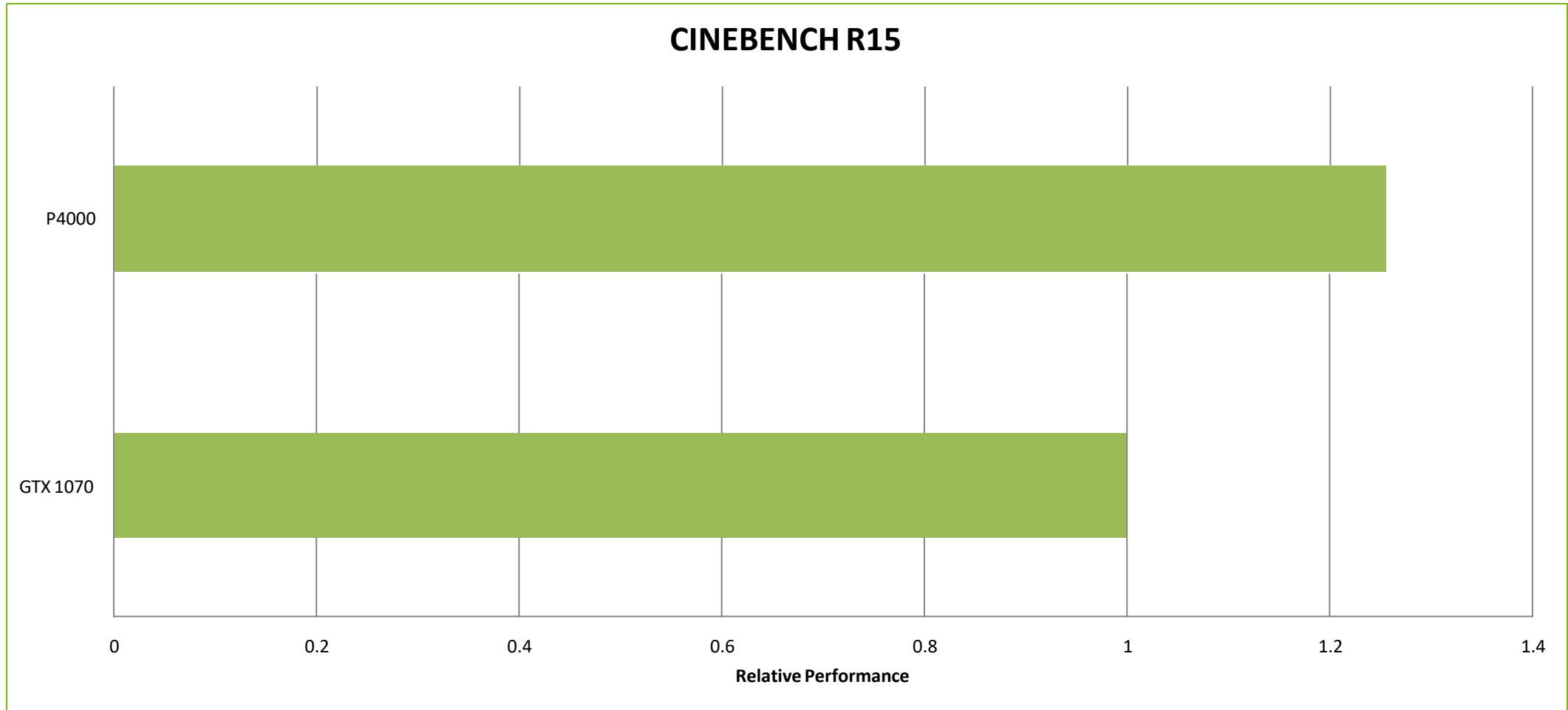
# P4000 VS GTX 1070



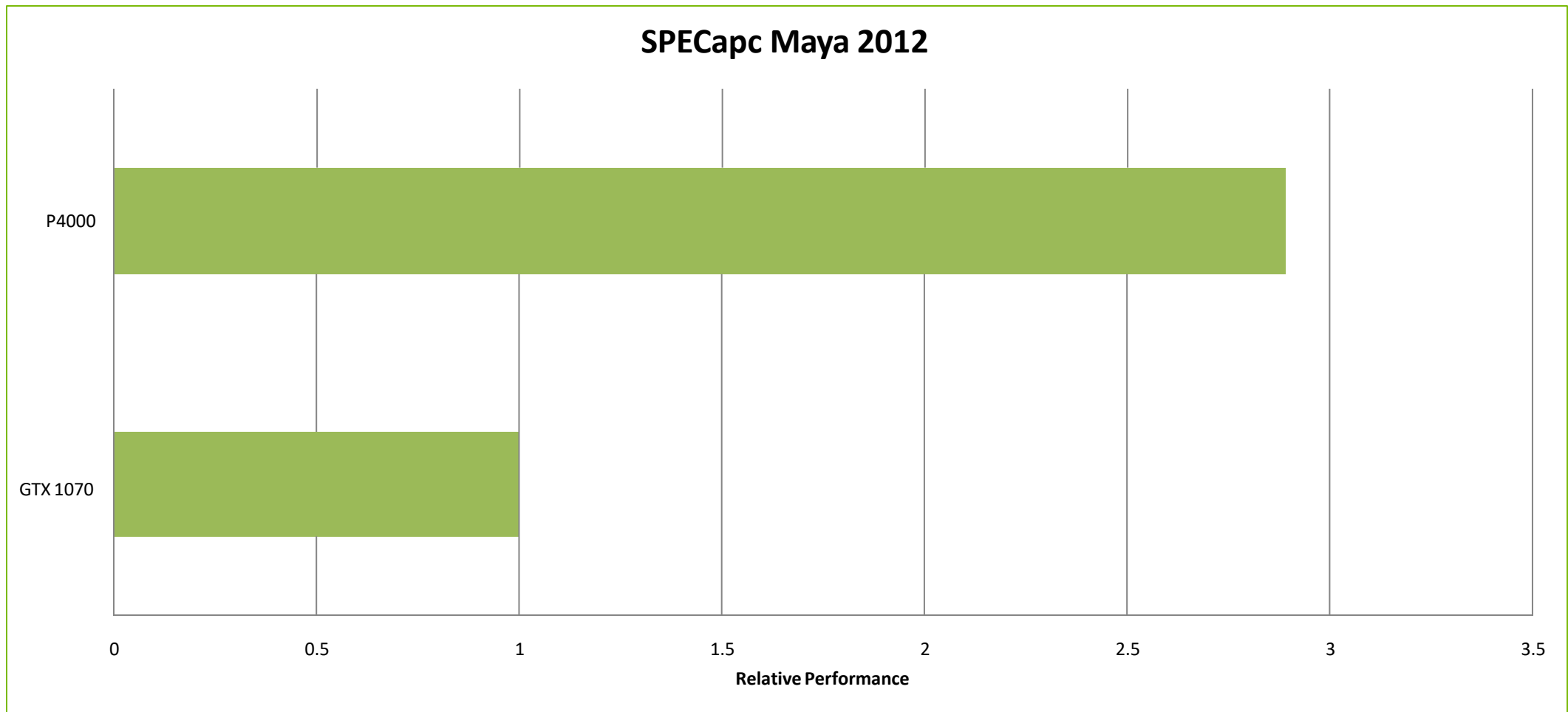
# P4000 VS GTX 1070



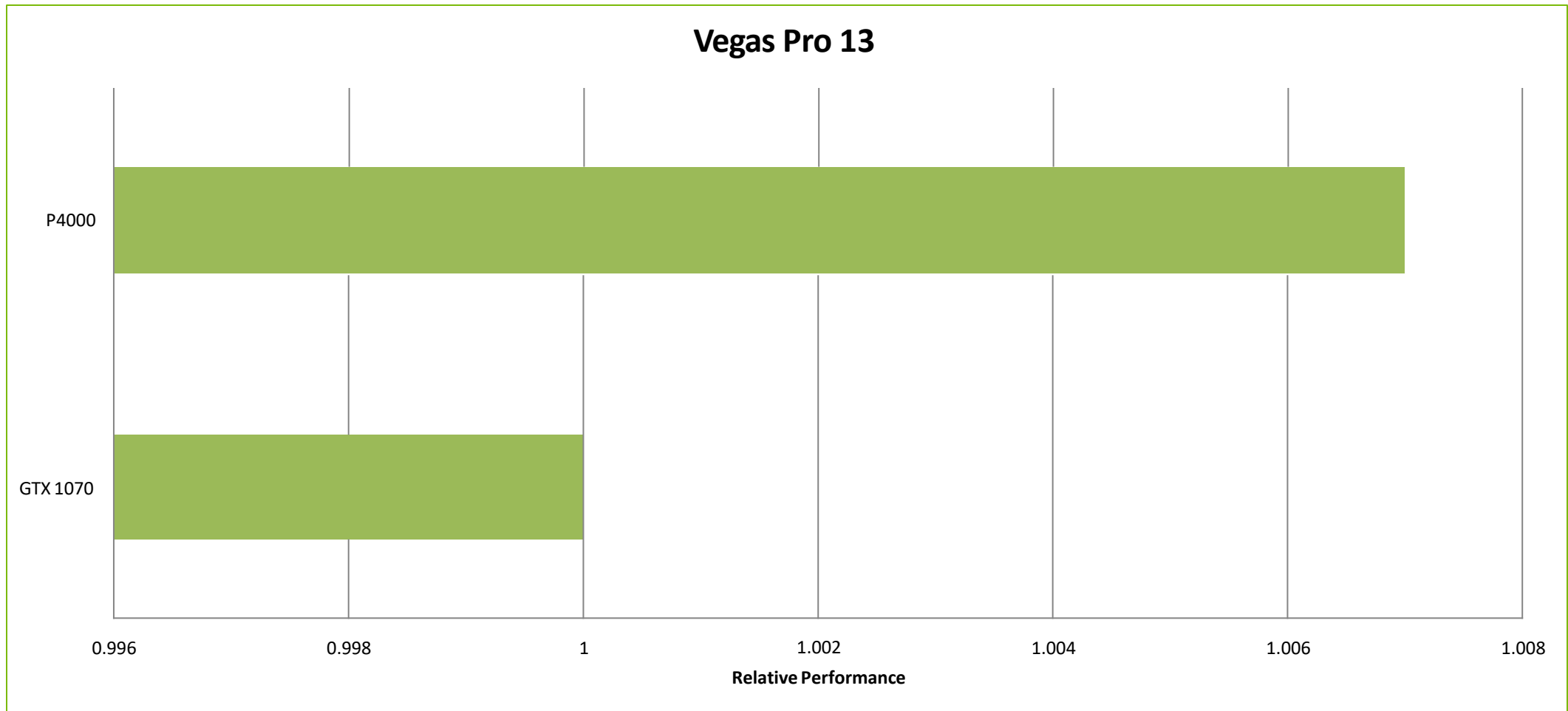
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# P4000 VS GTX 1070

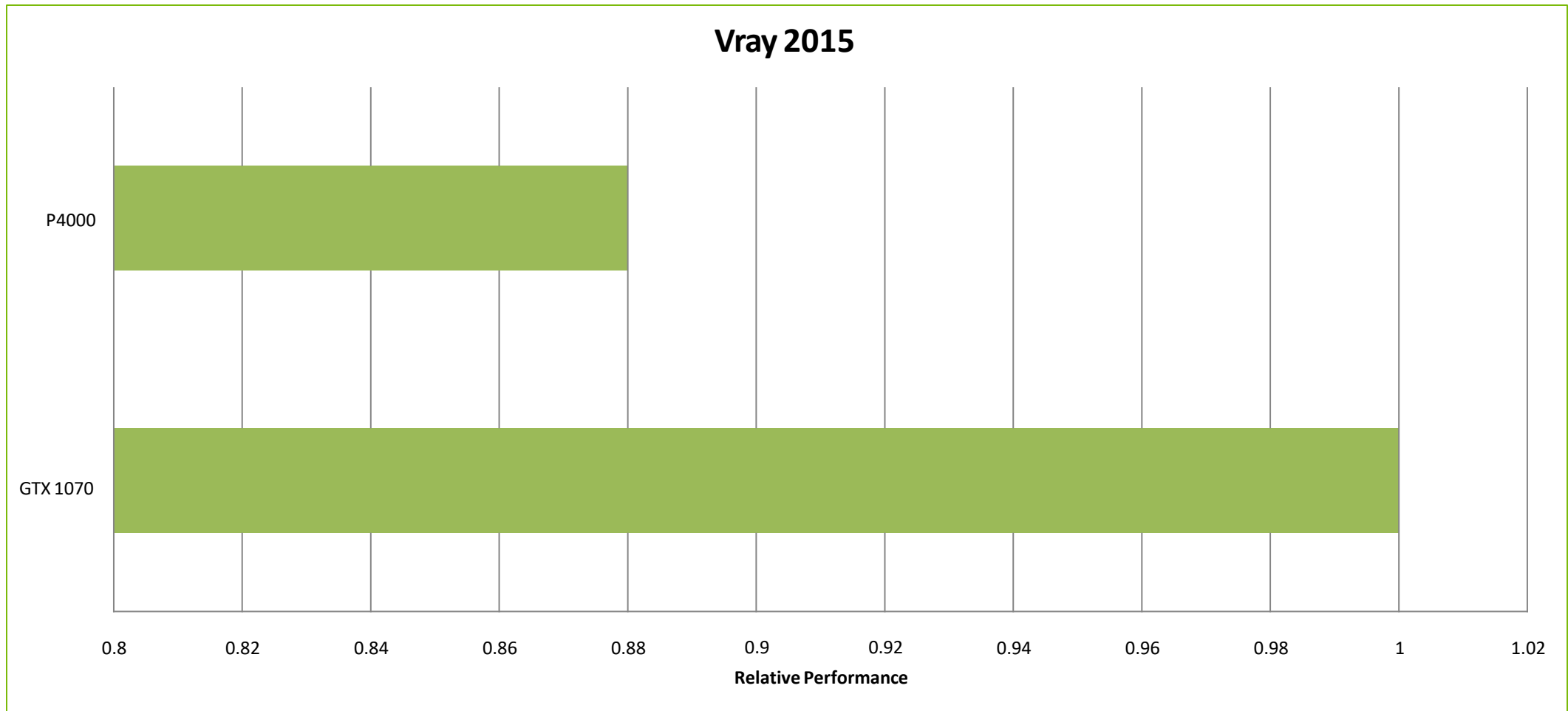


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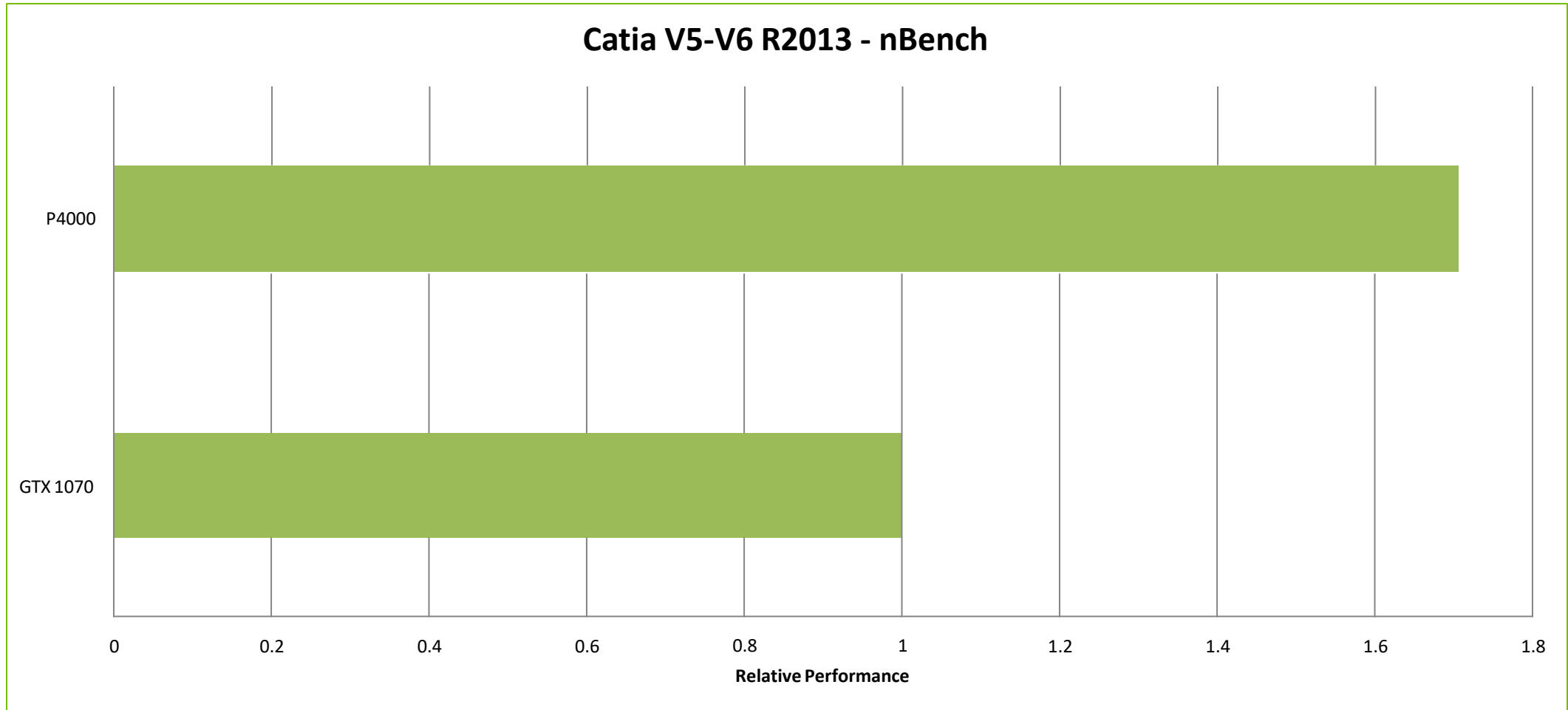




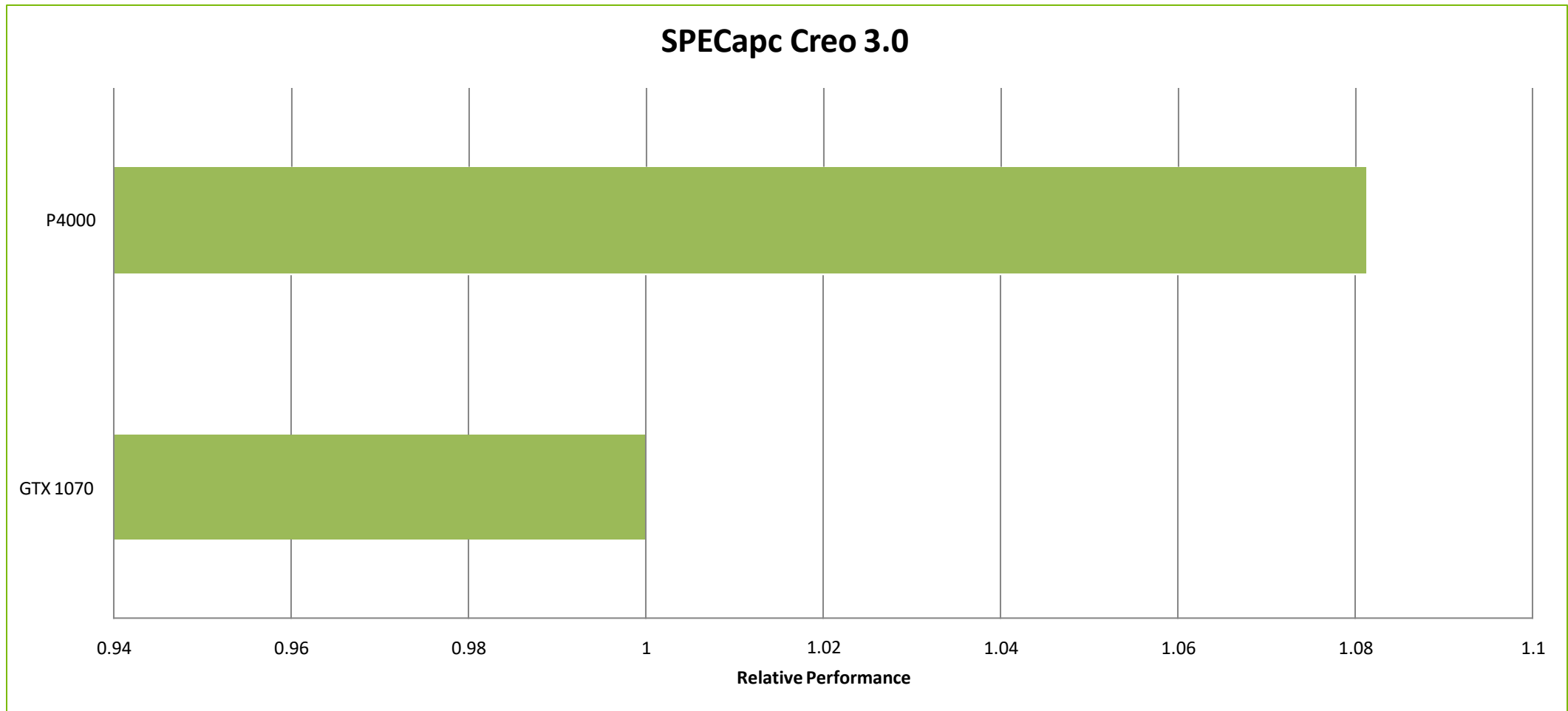
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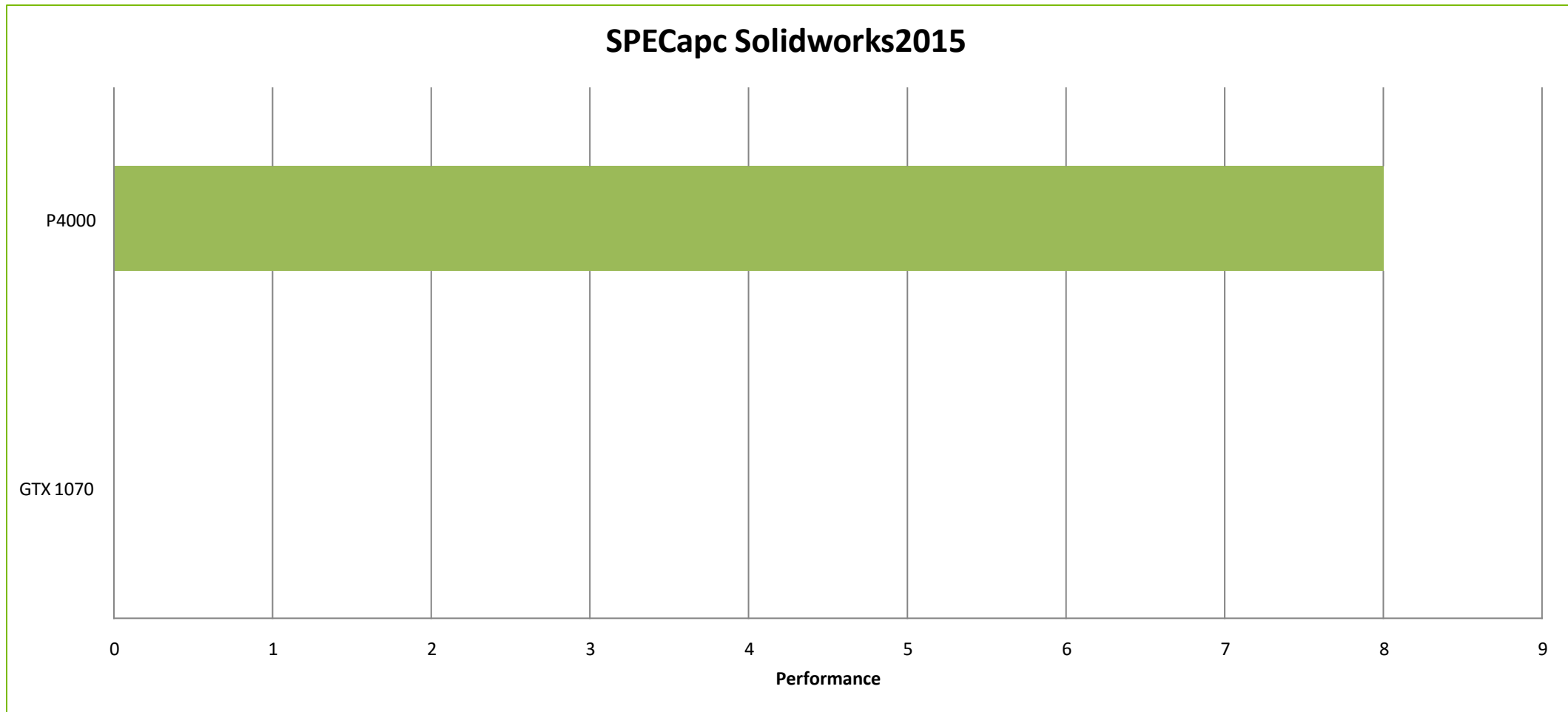
# P4000 VS GTX 1070



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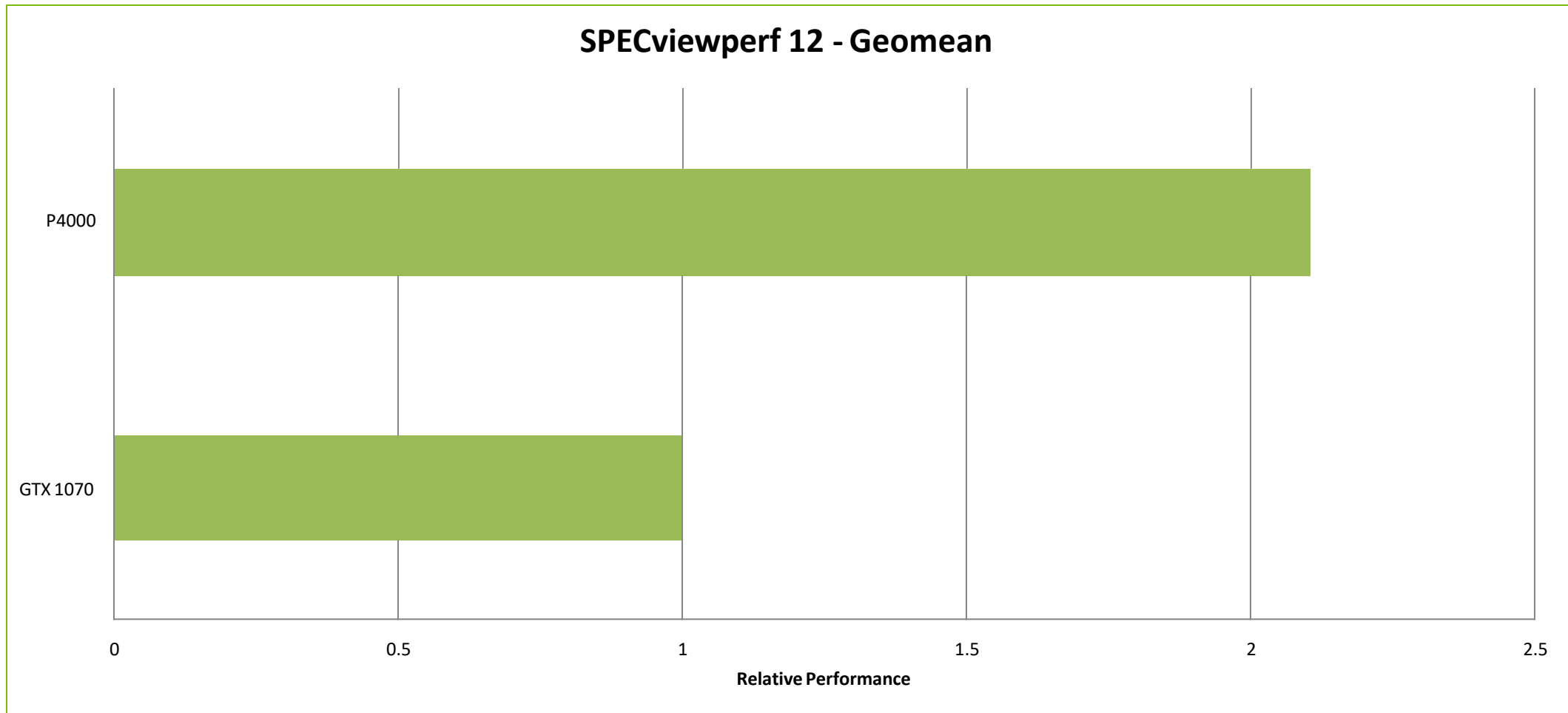


# P4000 VS GTX 1070\*



\*SOLIDWORKS RealView feature not supported on consumer graphics cards, consumer graphics cards unable to complete SPECapc for SOLIDWORKS 2015 benchmark

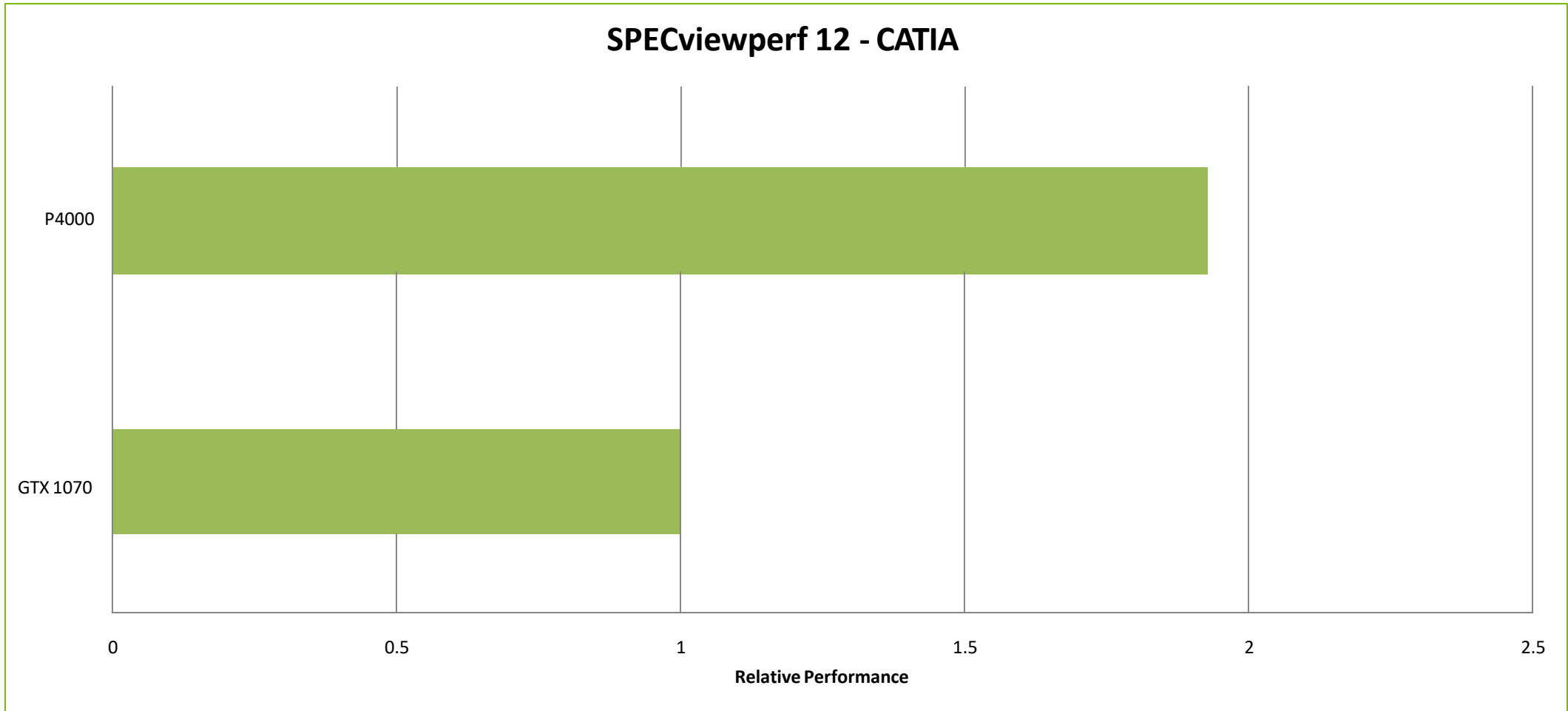
# P4000 VS GTX 1070



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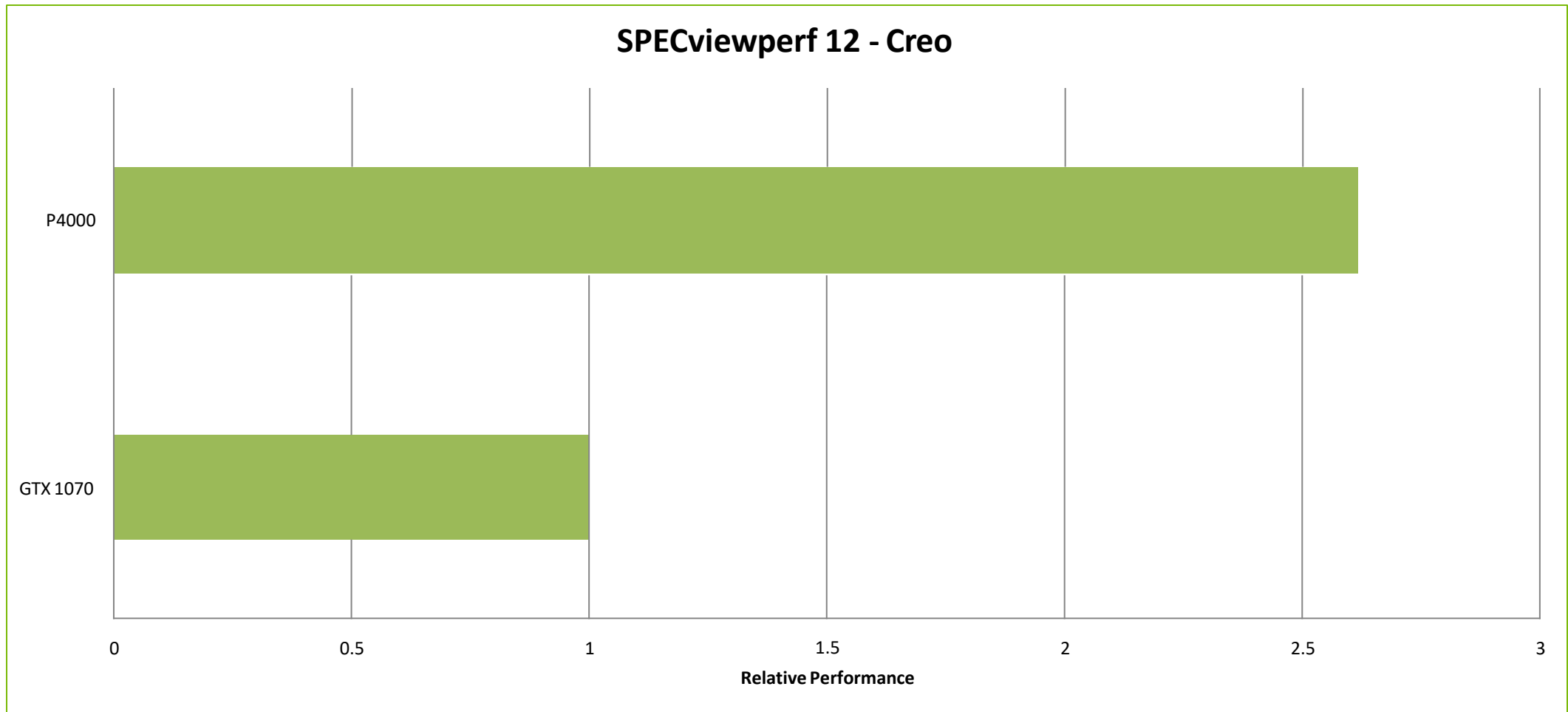
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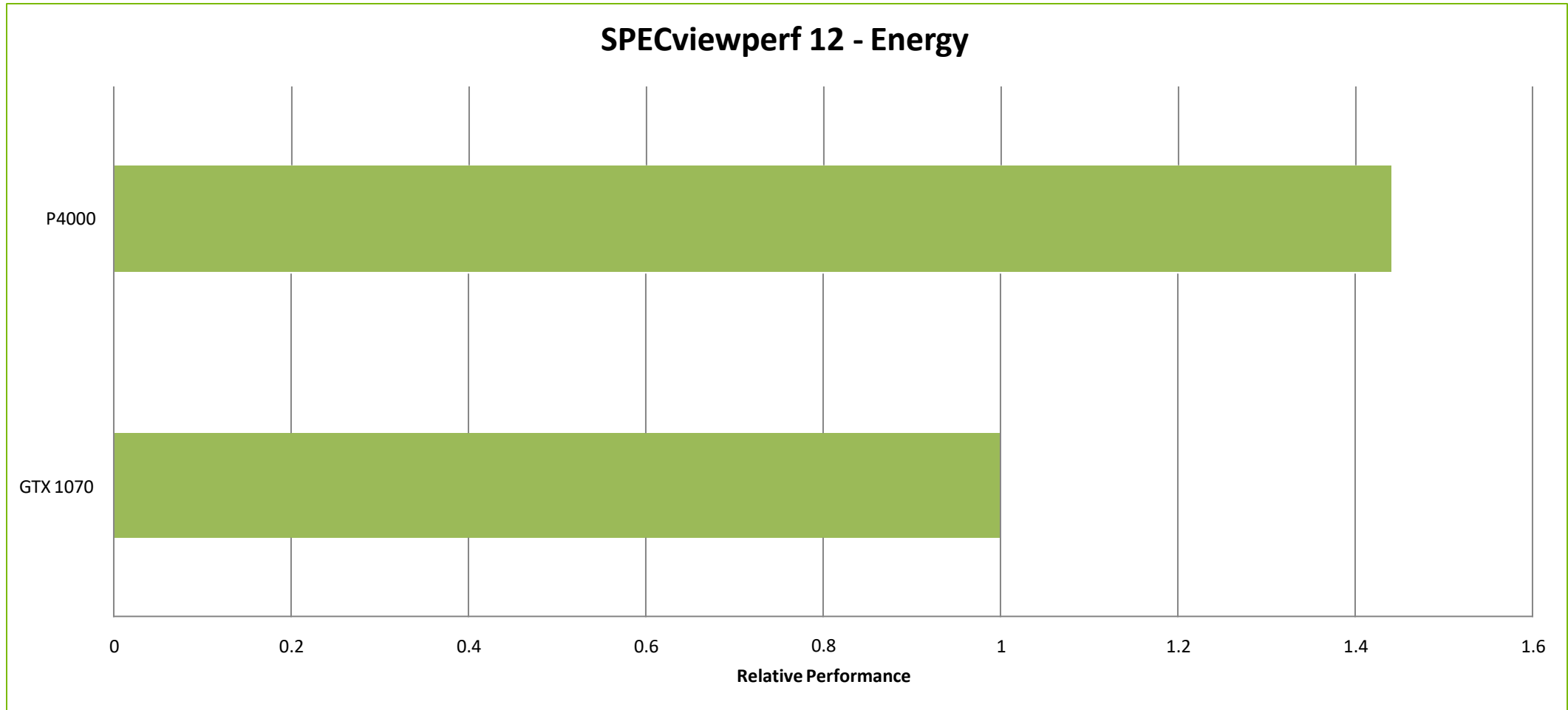


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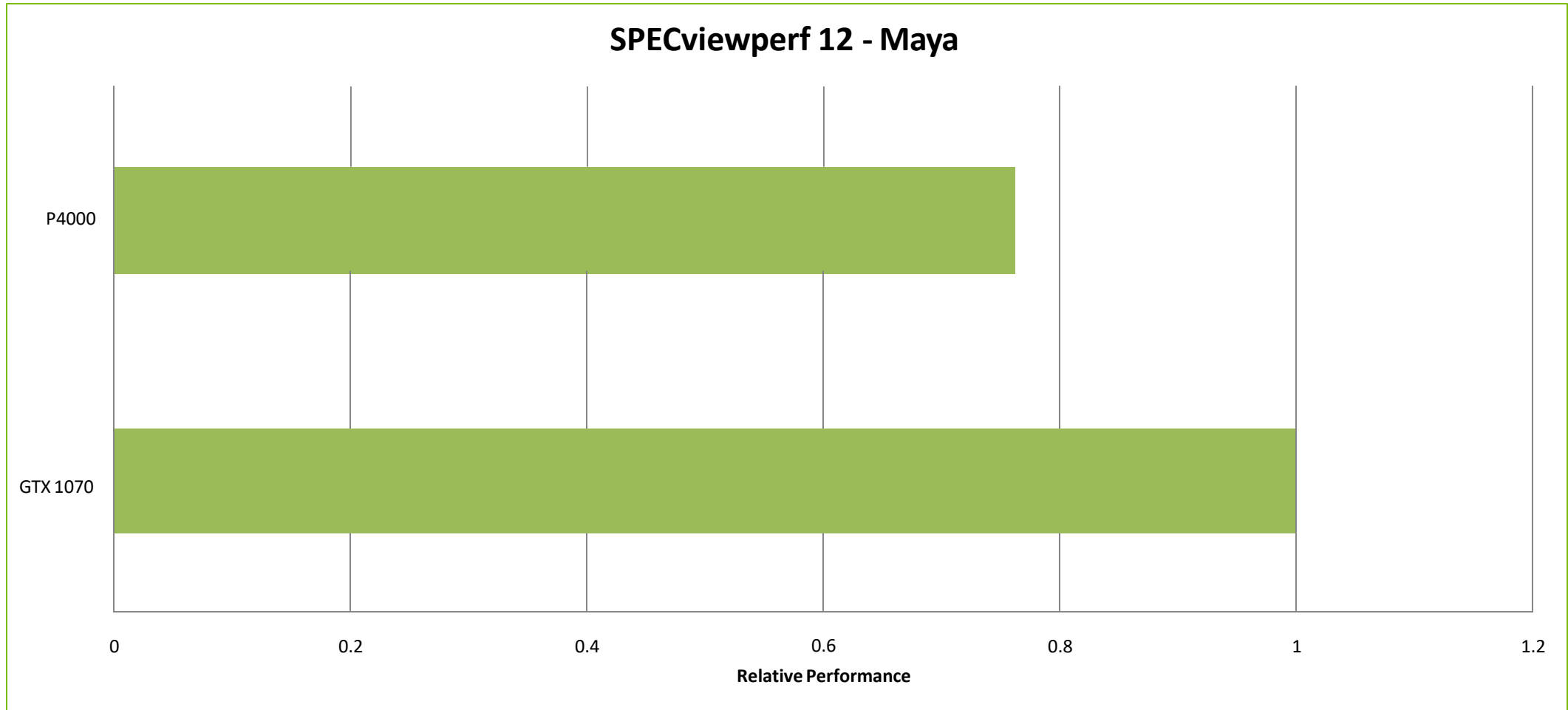
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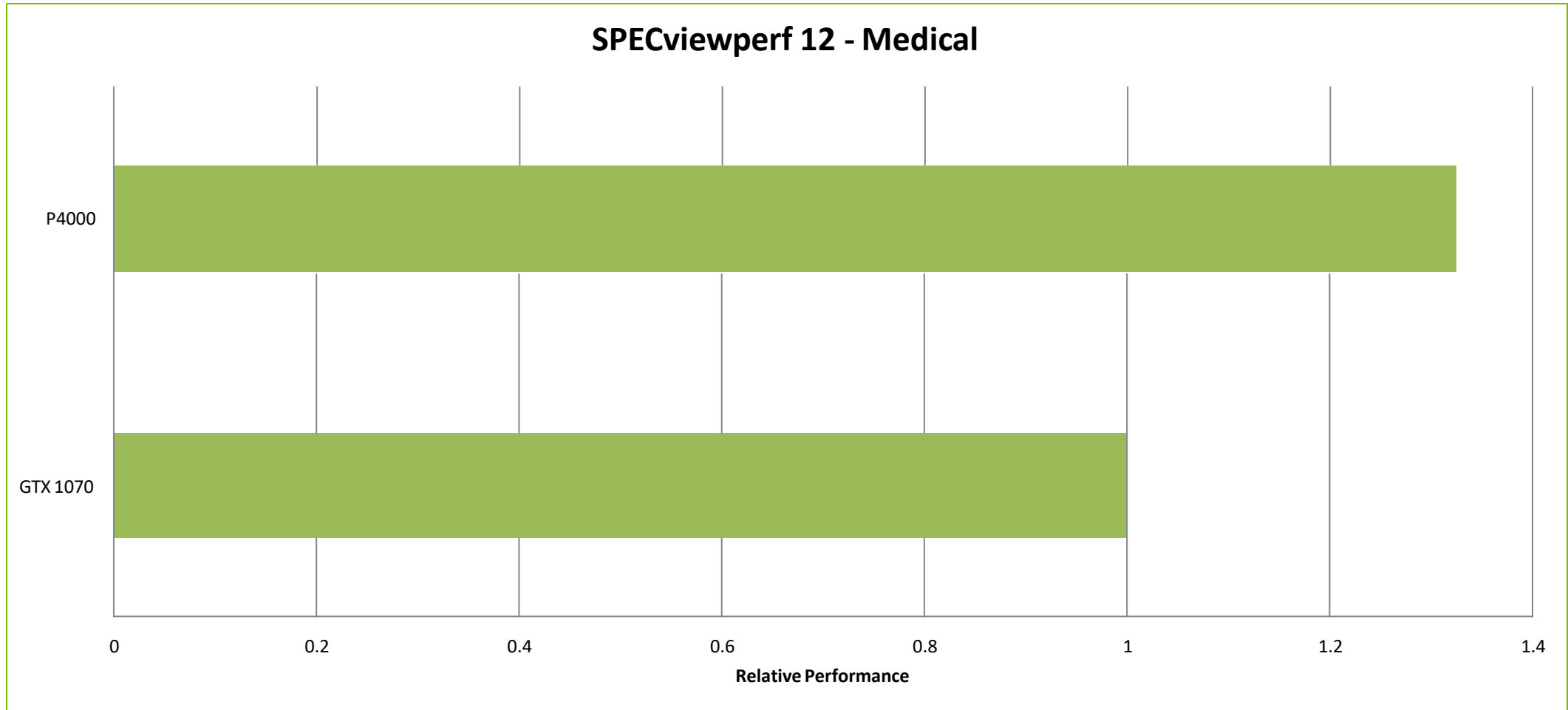
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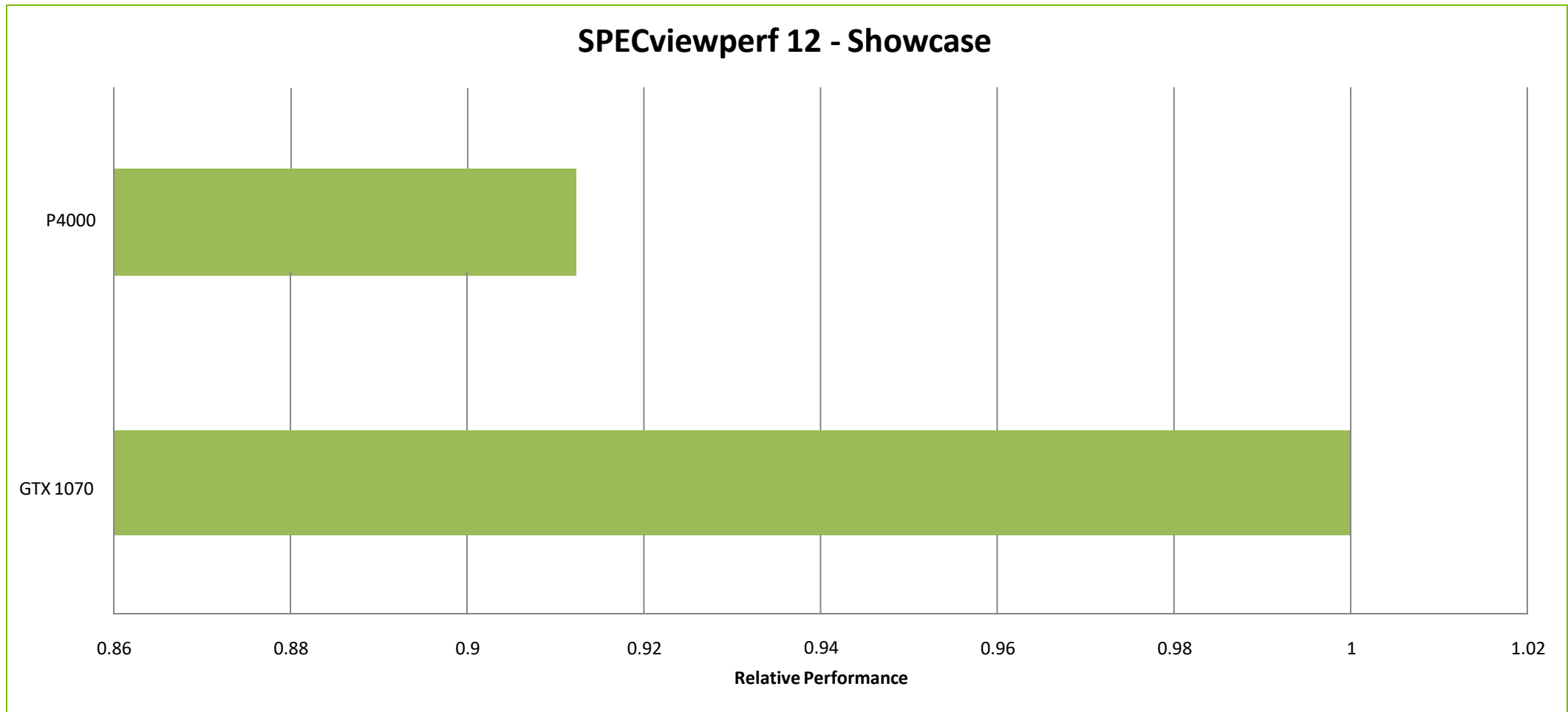


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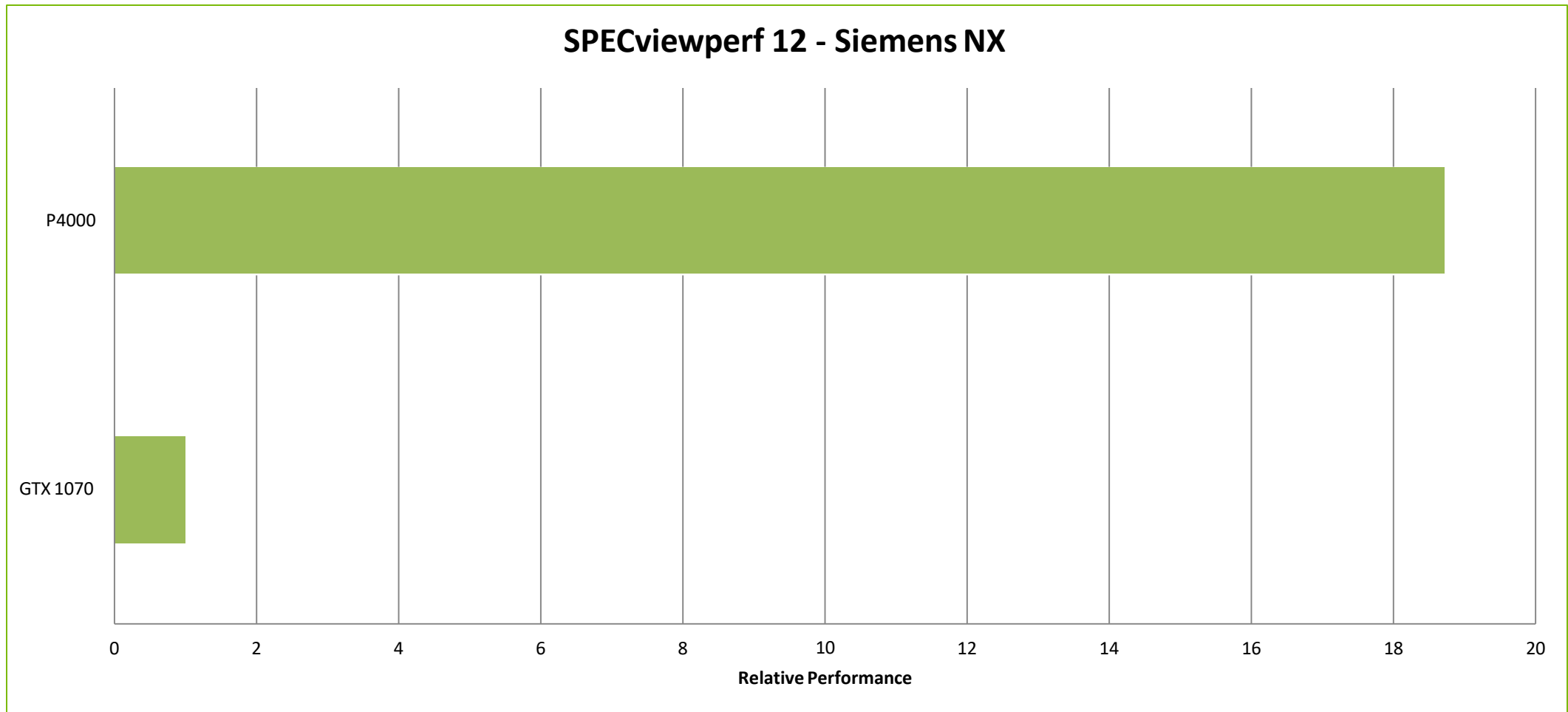
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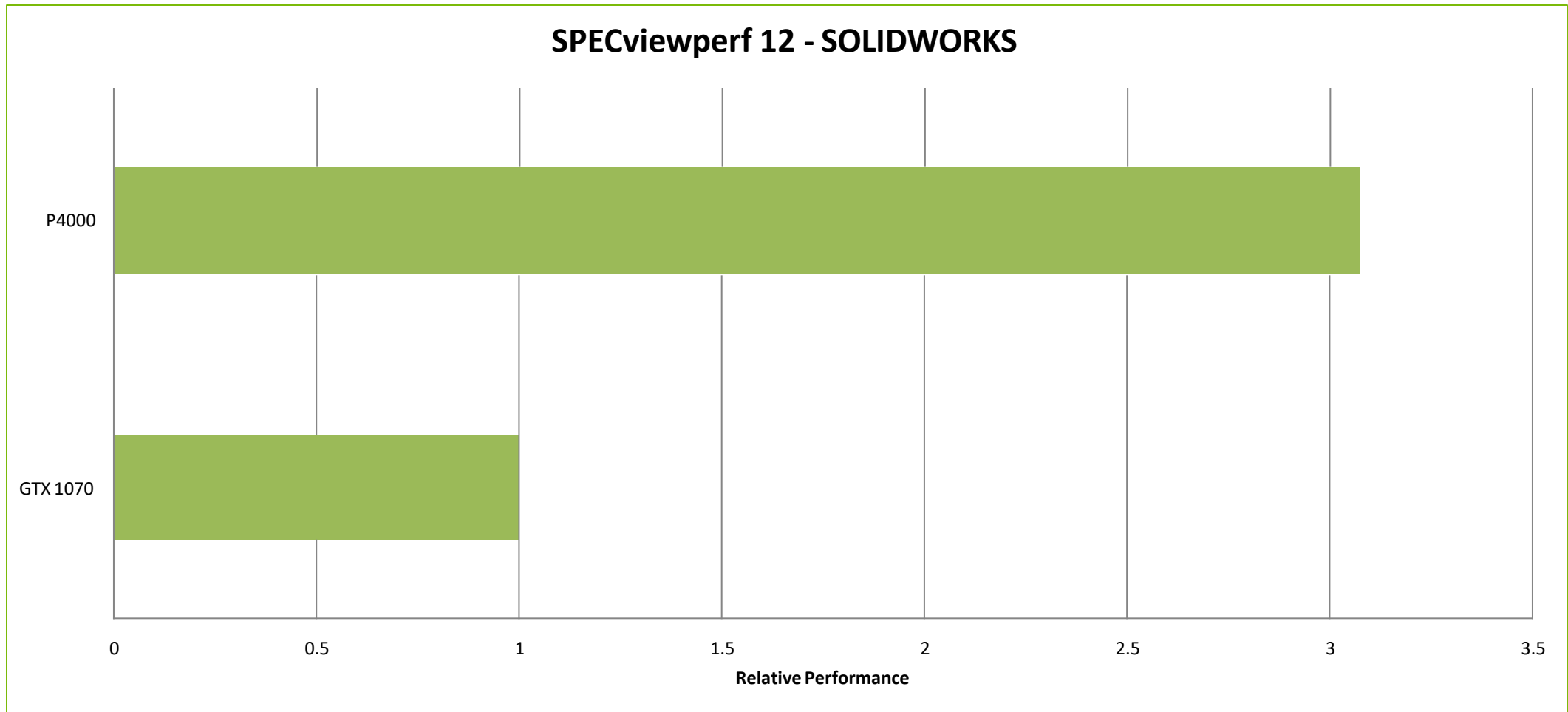
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