

QUADRO P5000



# NVIDIA Quadro Desktop Products

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

MP6000000  
K6000000  
012241GG2B  
GB

PM66000000  
2244GGBB

New  
PM5500000  
0186GGBB

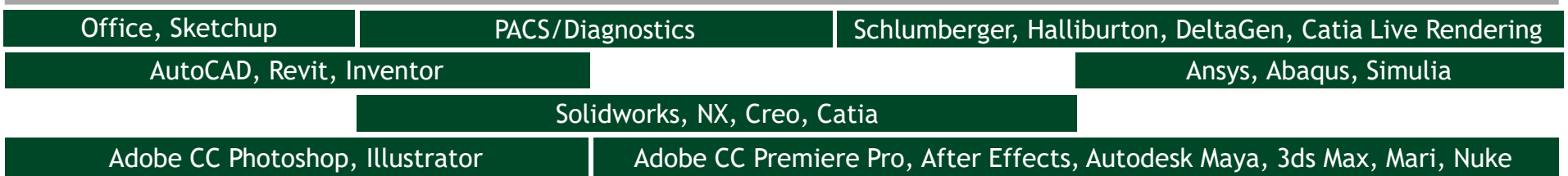
M4000 8GB

M2000 4GB

K1200 4GB LP

K620 2GB LP

K420 2GB LP



# QUADRO P5000

- SPECIFICATIONS
- PERFORMANCE

# Quadro P5000



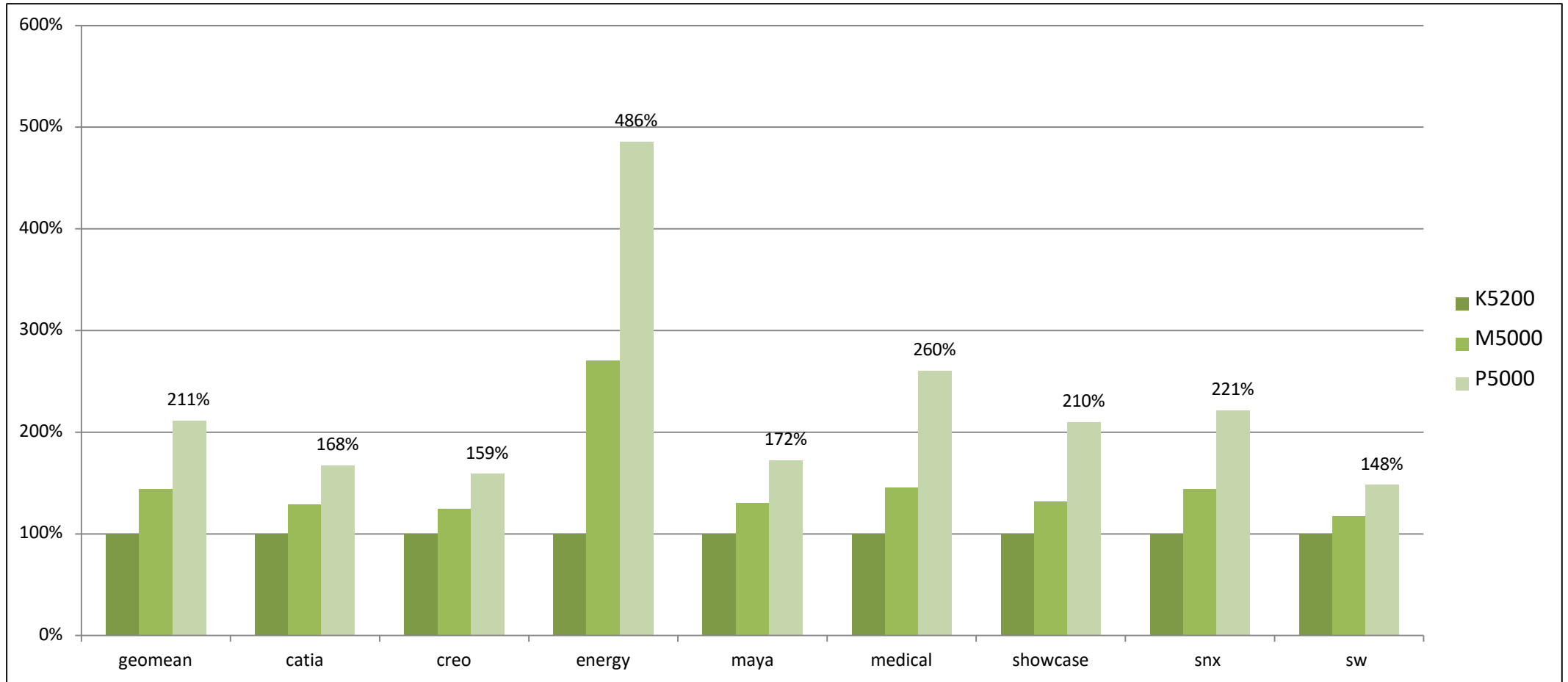
GPU ARCHITECTURE	Pascal
CUDA CORES	2560
MEMORY CAPACITY	16 GB GDDR5X
GRAPHICS BUS	PCI EXPRESS 3.0
DISPLAY CONNECTORS	4x DP 1.4 + 1x DVI-D
DISPLAY SUPPORT	4X 4096x2160 @ 120Hz 4X 5120x2880 @ 60Hz

# QUADRO M5000 VS P5000

	M5000	P5000	Benefits
GPU Architecture	Maxwell	Pascal	Most Powerful and Efficient GPU
# CUDA Cores	2048	2560	Faster compute & rendering performance
Memory Size	8 GB	16 GB GDDR5X	More memory- Real-Time Interactivity with Large Complex Assemblies, visually detailed VR environments
Memory BW	Up to 211 GB/s	Up to 288 GB/s	Move data to and from GPU faster
Display Connectors	4x DP + 1x DVI	4x DP + 1x DVI-D	Enabling 4 5K Displays
Advanced Display	SYNC	SYNC II	Synchronize up to 8 GPUs per system
Board Power	150 W	180 W	
Power Connector	1x 6-pin PCIe	1x 8-pin PCIe	Simplified Connectivity

# NVIDIA P5000 VS PREVIOUS GENERATIONS

SPECviewperf 12 Performance: P5000 > 2X faster than K5200\*

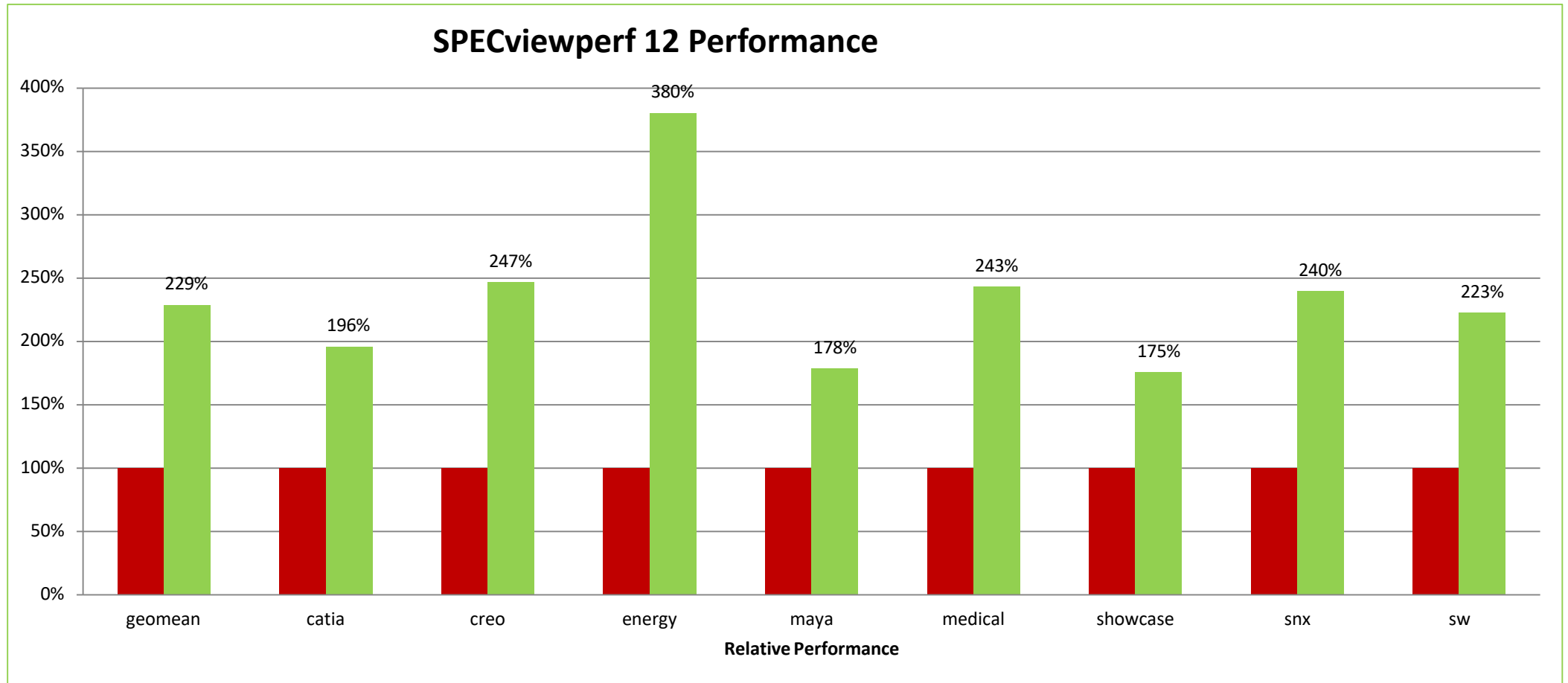


Tests run on an Intel Xeon E5 2697 V3 CPU 2.6GHz (3.6GHz turbo), 32GB RAM, Win 7 64bit SP1, NVIDIA driver 372.54. Performance testing completed with publically available SPECviewperf® 12 benchmark information

\*based on SPECviewperf 12 Geomean score

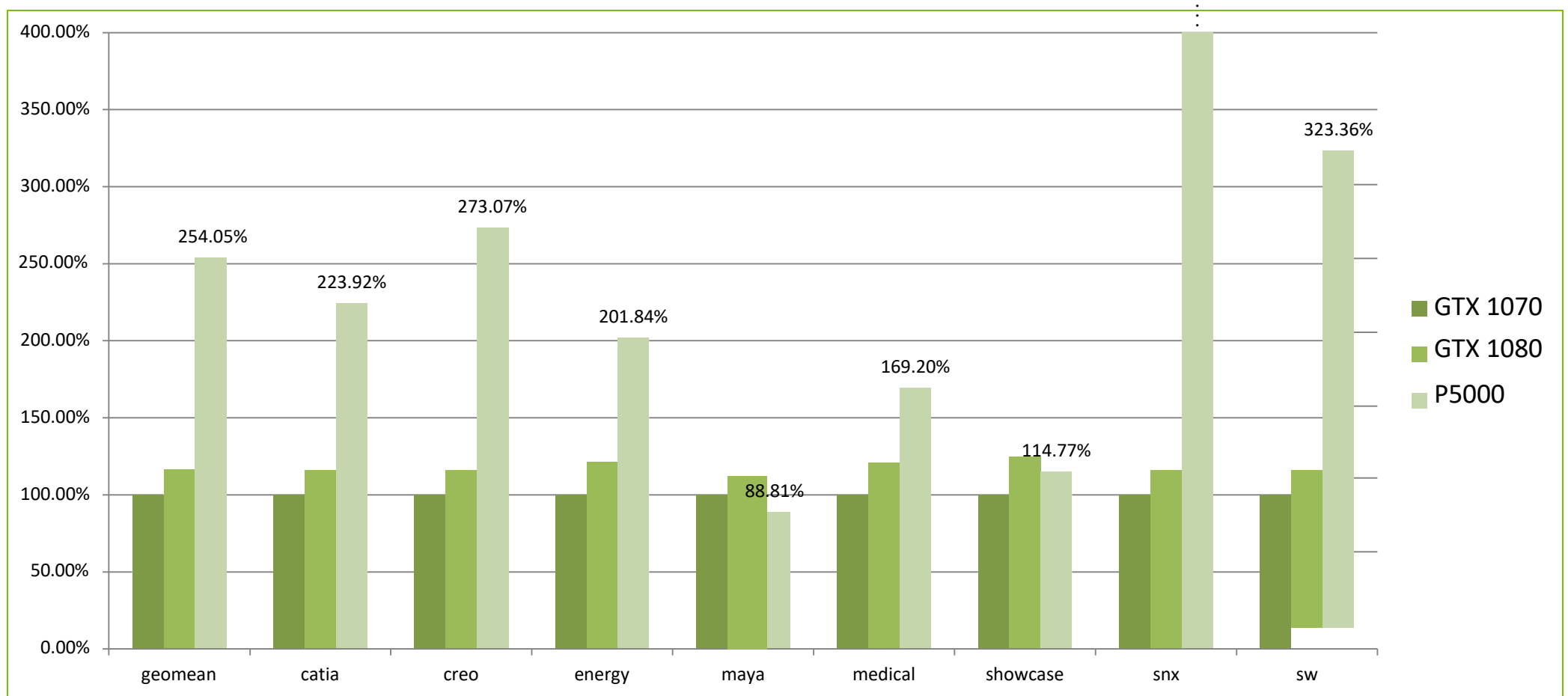
# NVIDIA P5000 VS AMD W8100

P5000 > 2X faster than W8100\*



# NVIDIA P5000 VS GEFORCE

P5000 > 2X faster than GTX\*



Tests run on an Intel Xeon E5 2697 V3 CPU 2.6GHz (3.6GHz turbo), 32GB RAM, Win 7 64bit SP1, NVIDIA driver 372.54.  
Performance testing completed with publically available SPECviewperf® 12 benchmark information

\*based on SPECviewperf 12 Geomean score

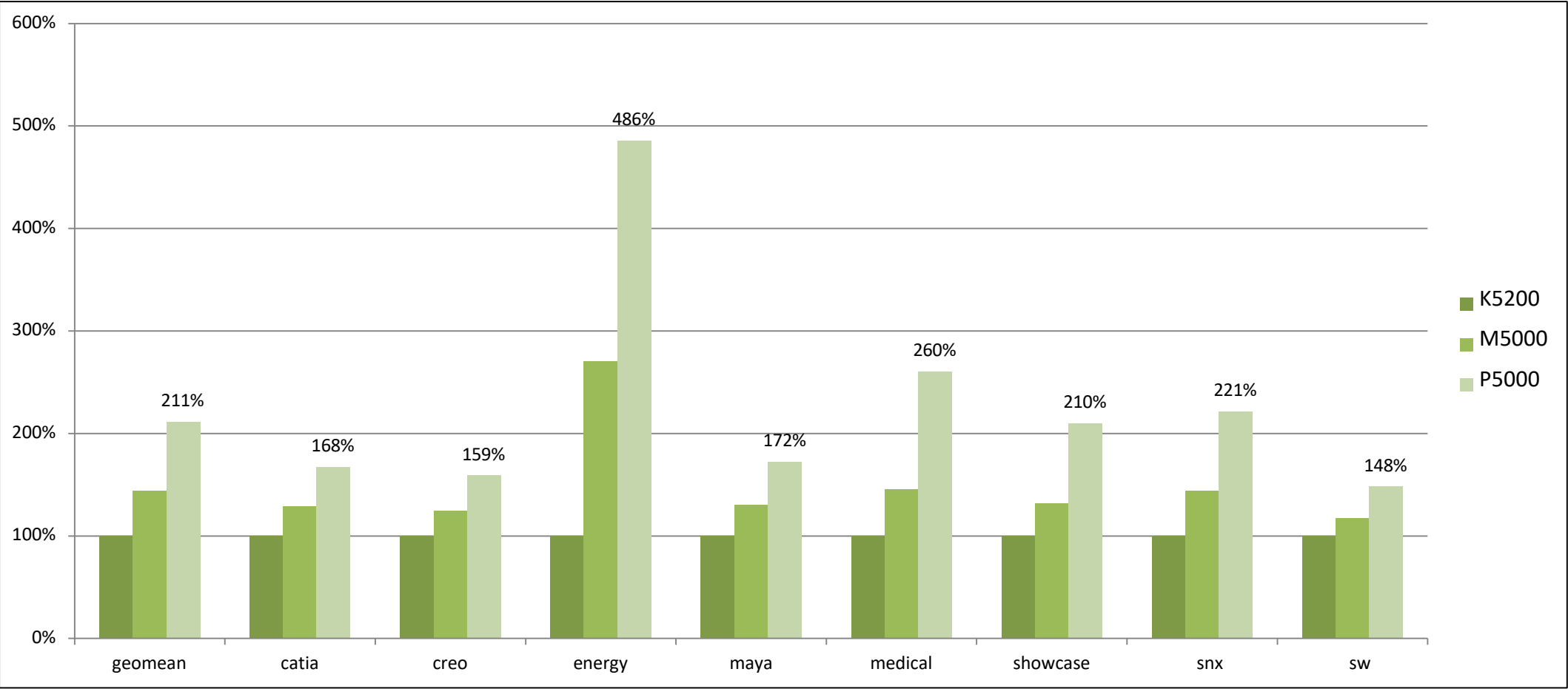


# APPENDIX

- **PREVIOUS GENERATION  
CHARTS**

# NVIDIA P5000 VS PREVIOUS GENERATIONS

SPECviewperf 12 Performance: P5000 > 2X faster than K5200\*



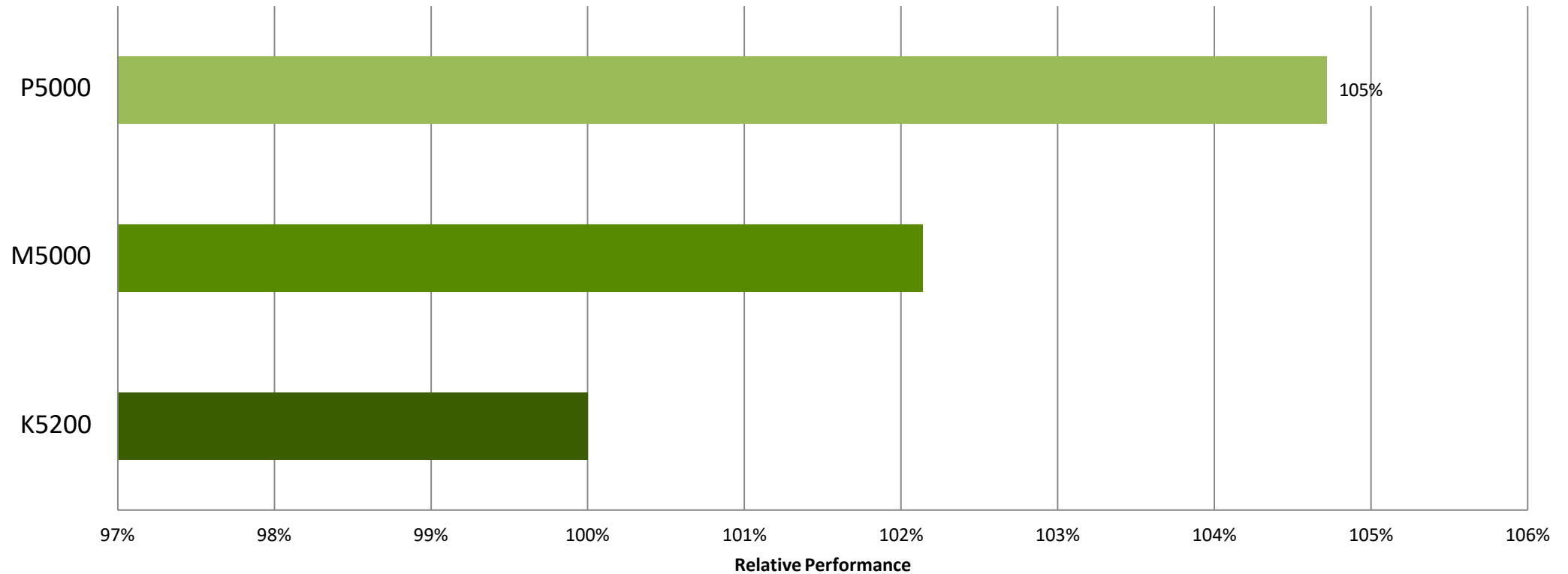
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# NVIDIA P5000 VS PREVIOUS GENERATIONS

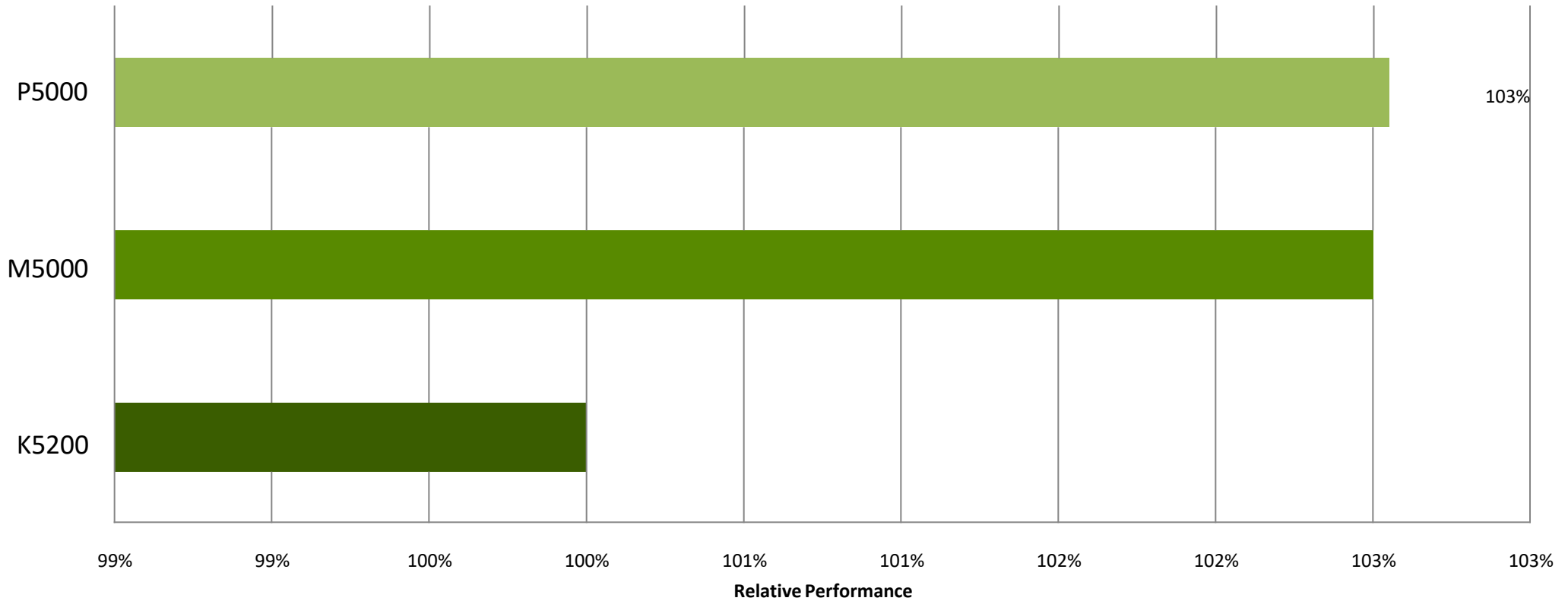
## SPECapc for 3ds Max 2015

GPU composite



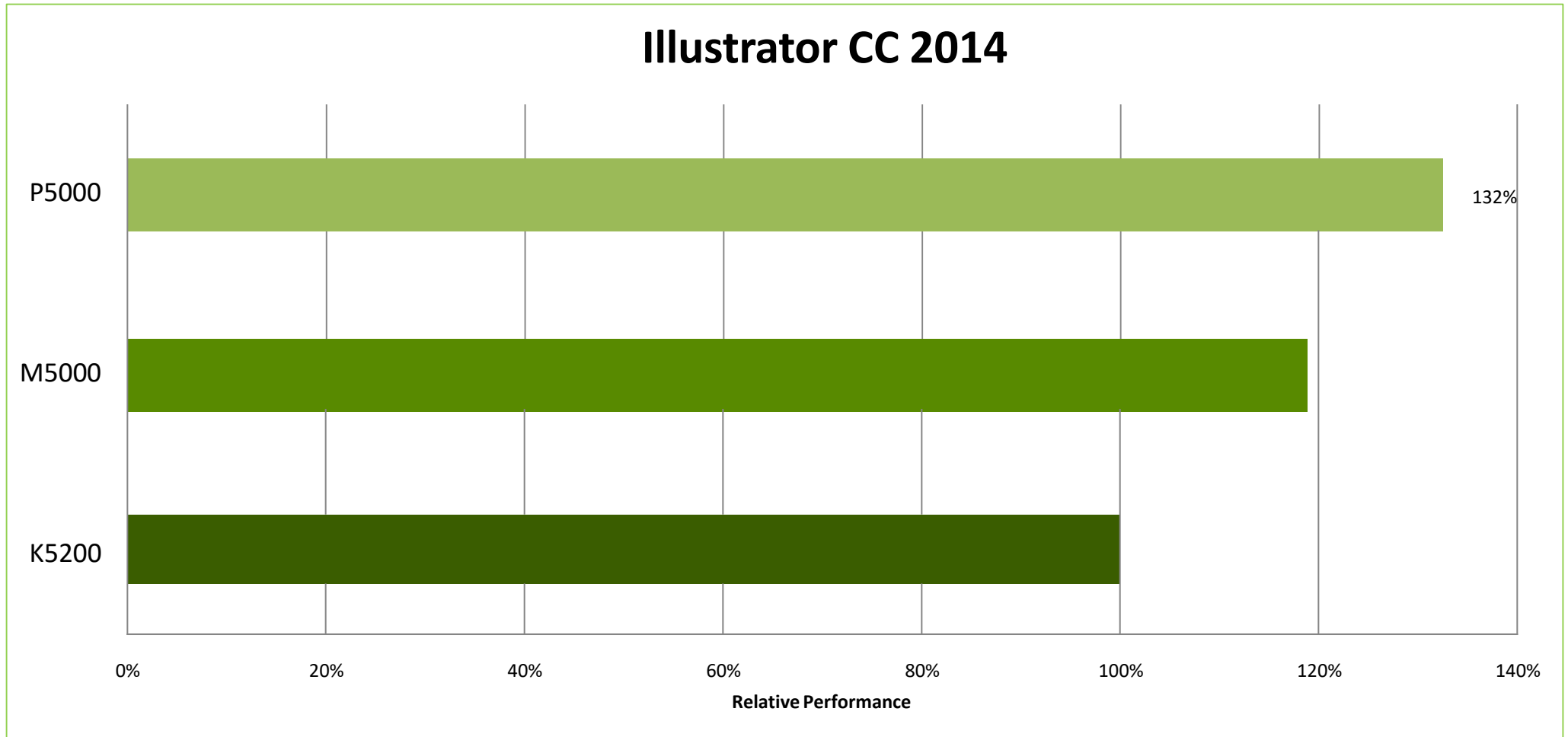
# NVIDIA P5000 VS PREVIOUS GENERATIONS

## Avid Media Composer



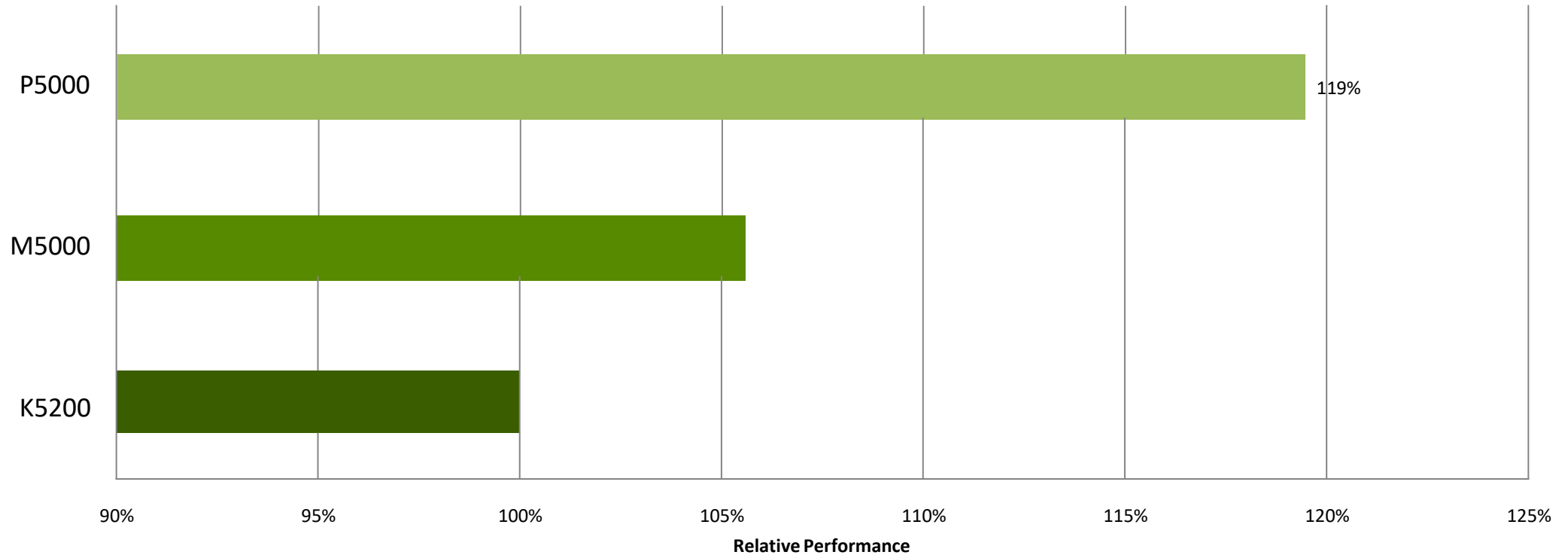
Tests run on an Intel Xeon E5 2697 V3 CPU 2.6GHz (3.6GHz turbo), 32GB RAM, Win 7 64bit SP1, NVIDIA driver 372.54.  
Performance testing completed with internal Avid Media Composer benchmark

# NVIDIA P5000 VS PREVIOUS GENERATIONS



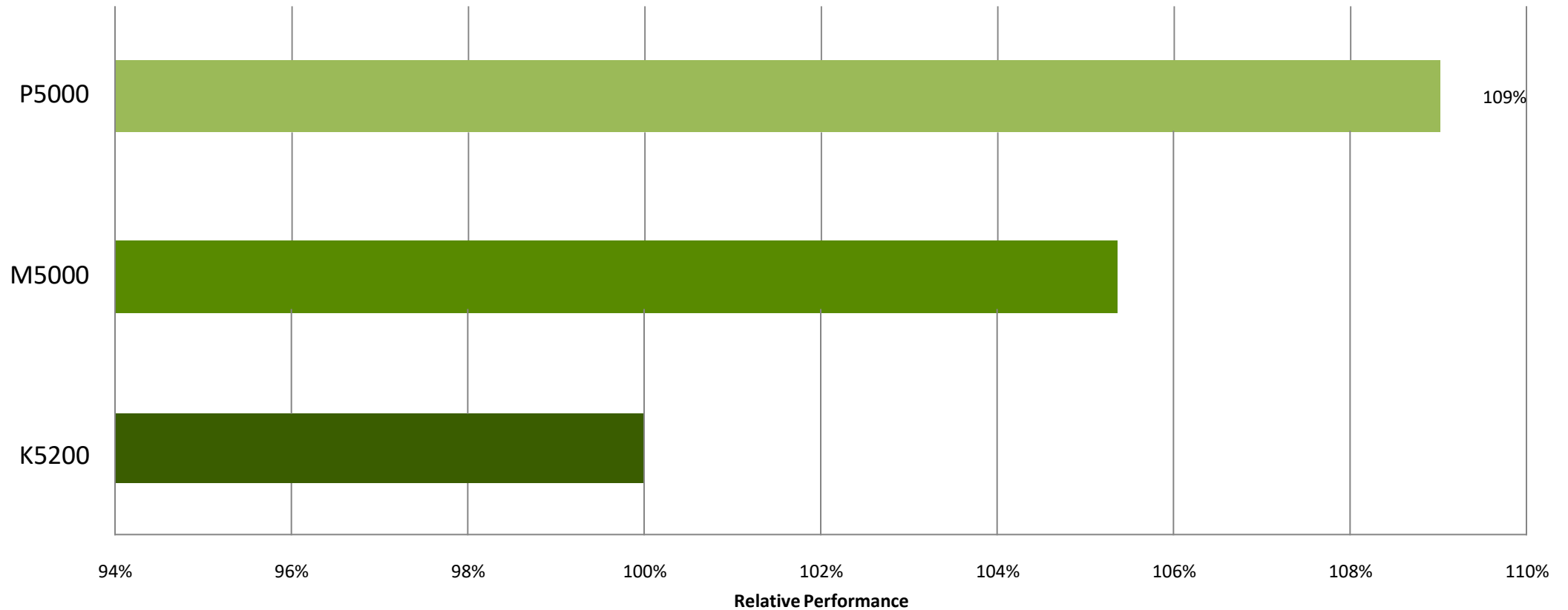
# NVIDIA P5000 VS PREVIOUS GENERATIONS

**SPECapc for Maya 2012**  
GPU Composite

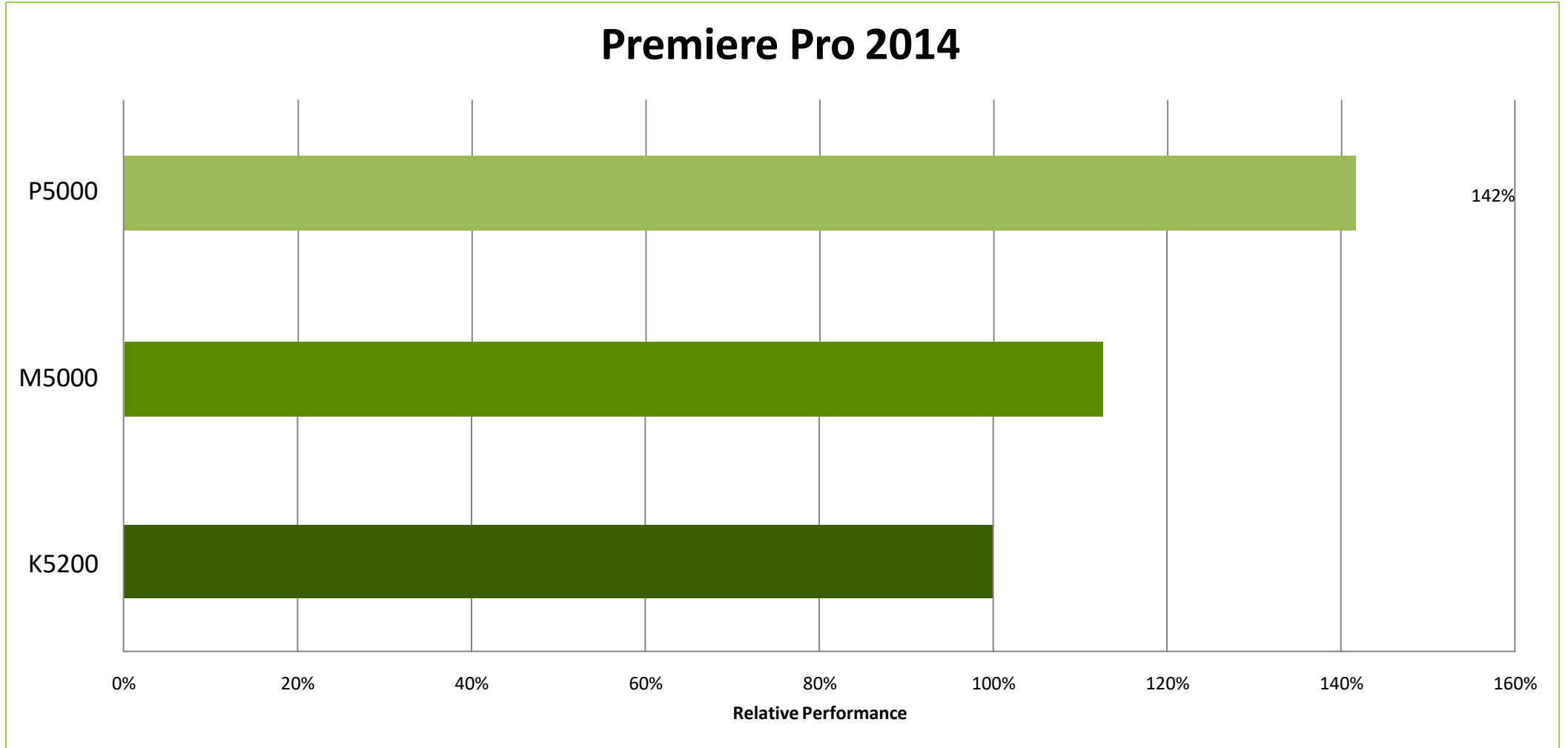


# NVIDIA P5000 VS PREVIOUS GENERATIONS

## Photoshop CC 2014



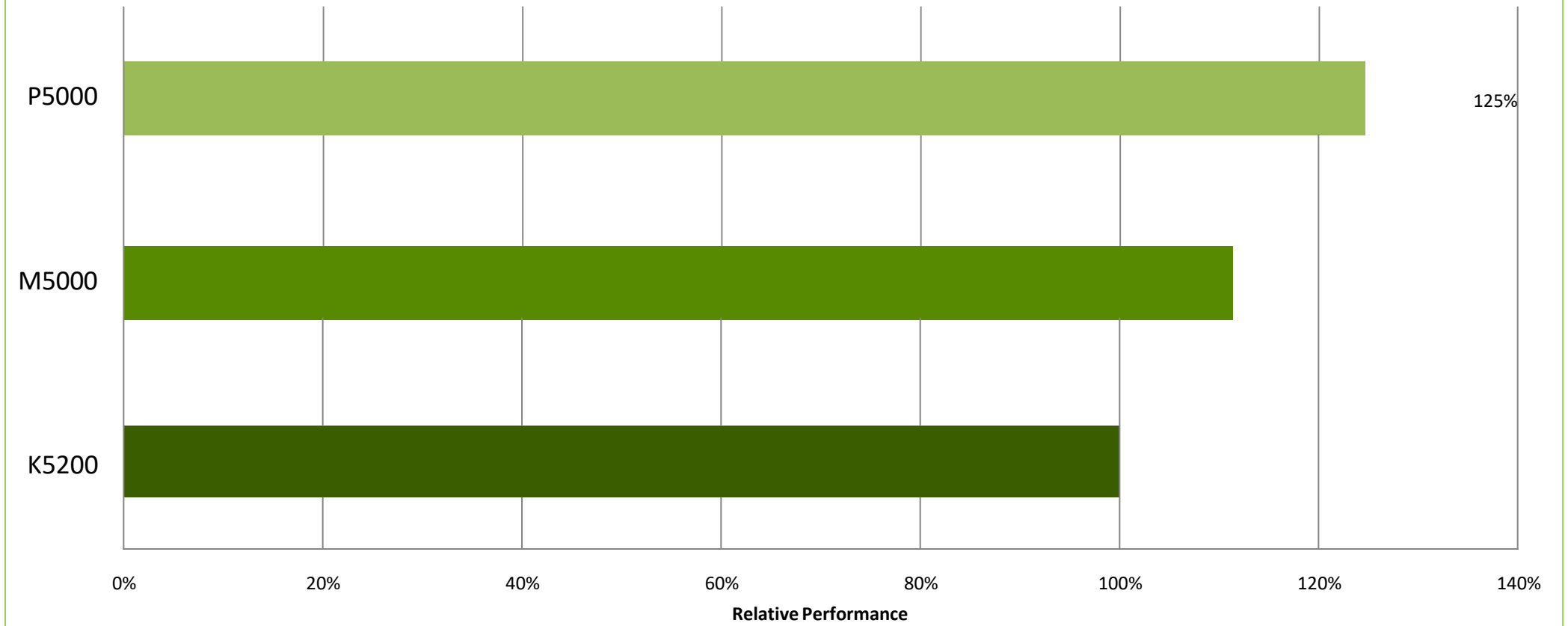
# NVIDIA P5000 VS PREVIOUS GENERATIONS





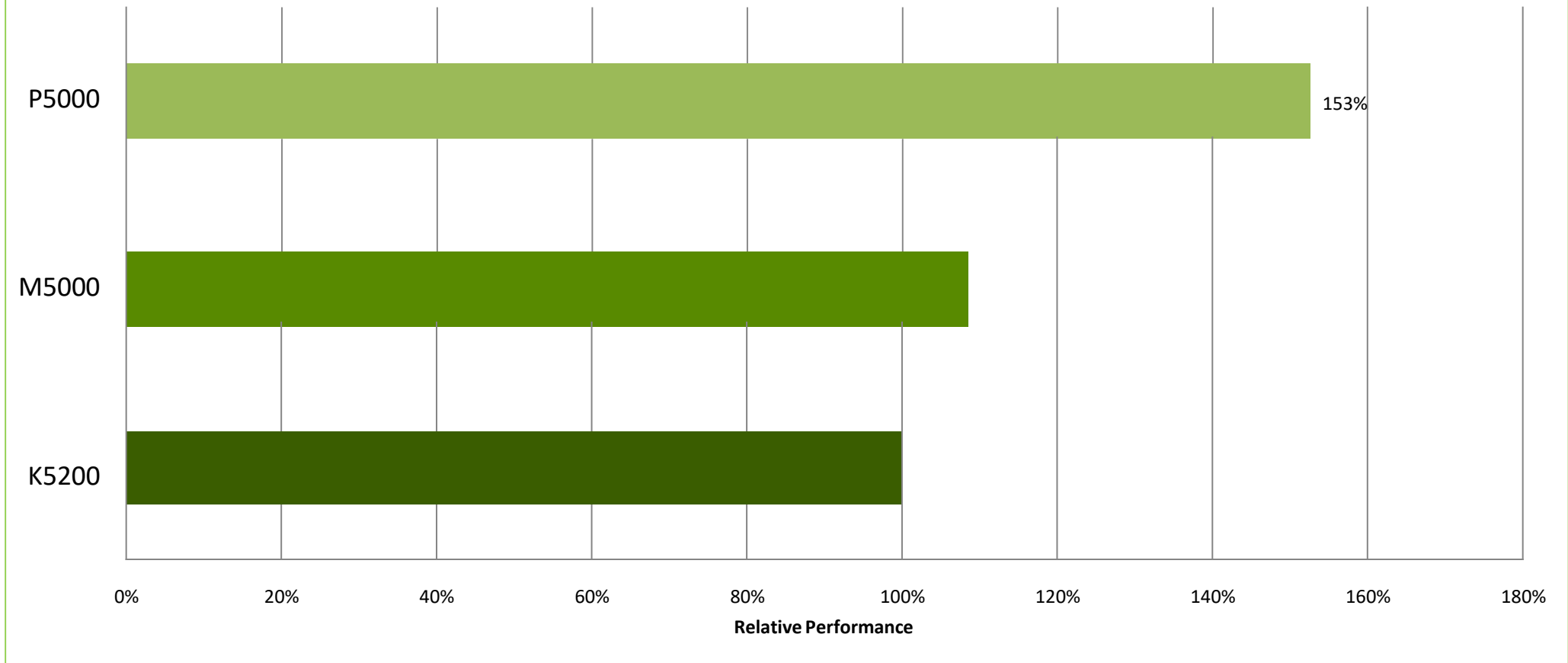
# NVIDIA P5000 VS PREVIOUS GENERATIONS

## Vegas Pro 13

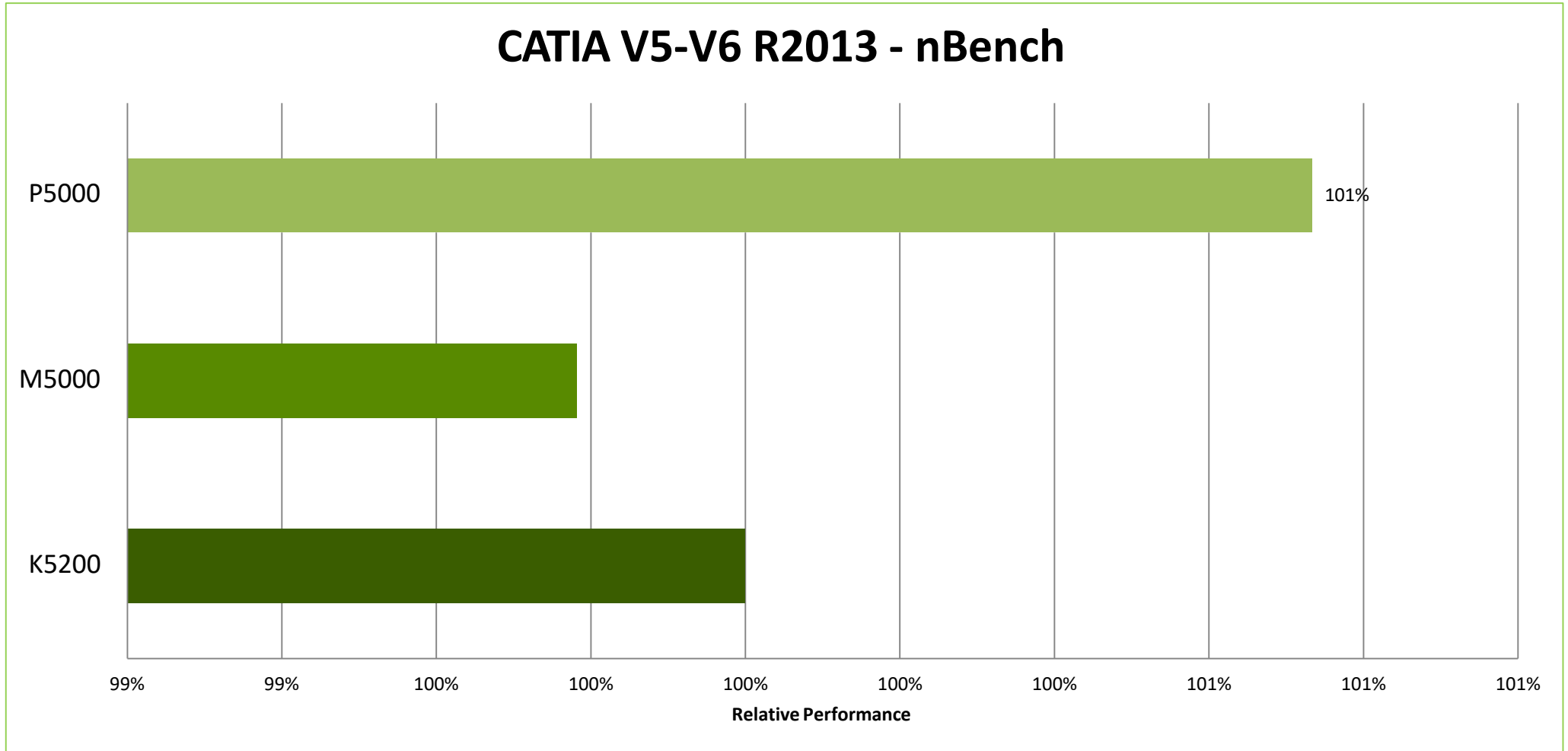


# NVIDIA P5000 VS PREVIOUS GENERATIONS

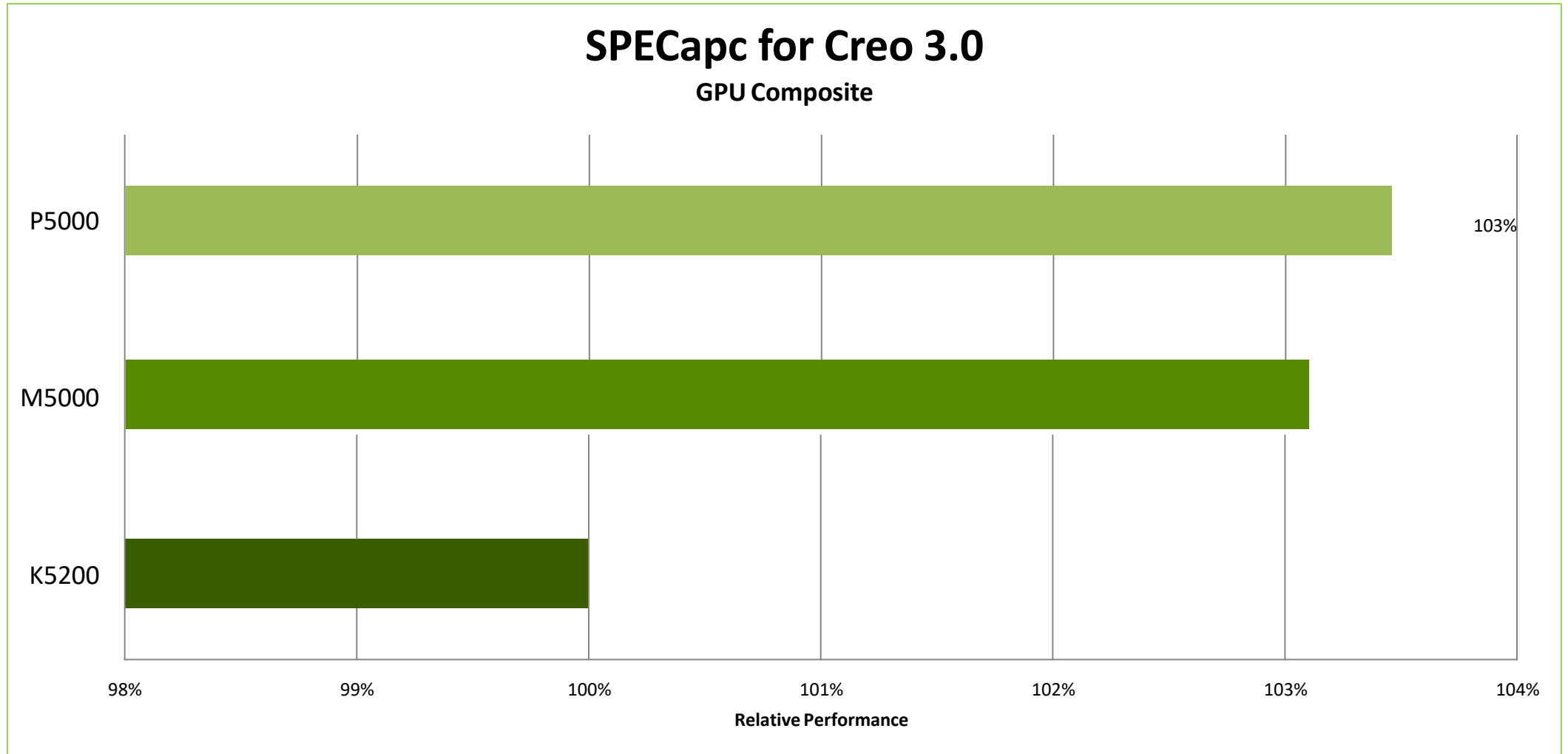
## Vray 2015



# NVIDIA P5000 VS PREVIOUS GENERATIONS



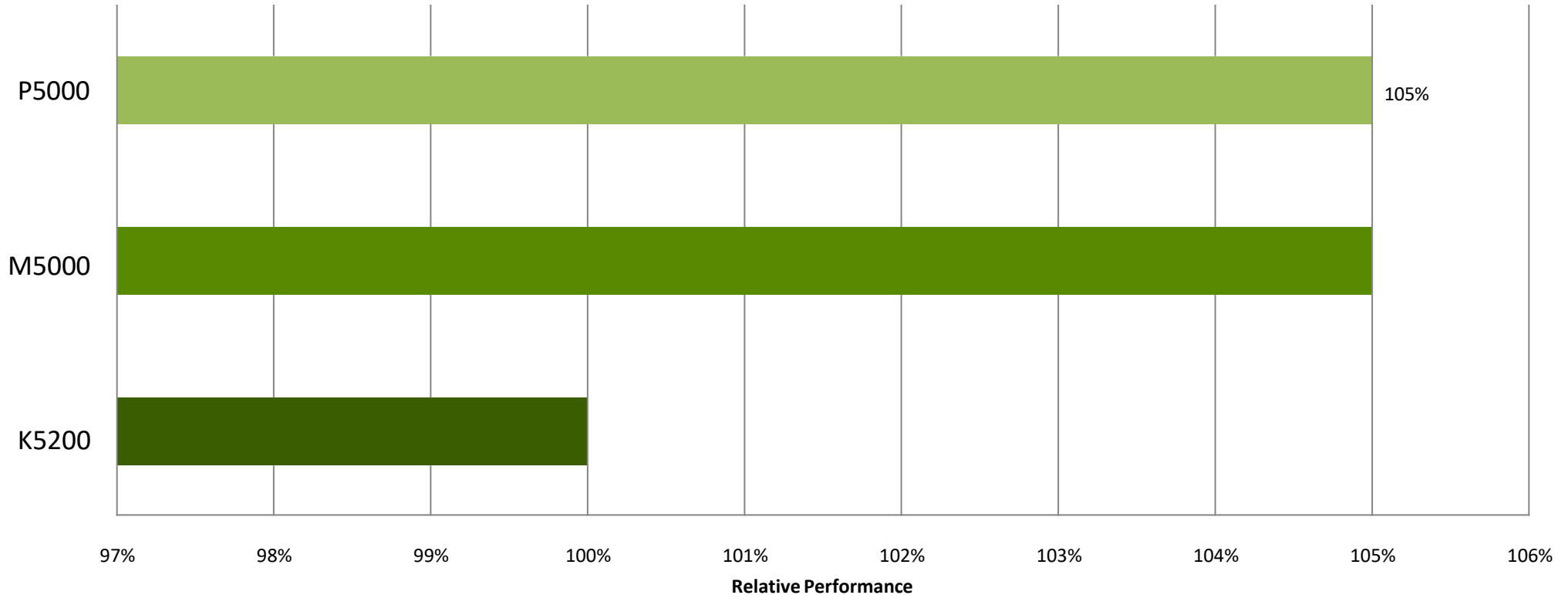
# NVIDIA P5000 VS PREVIOUS GENERATIONS



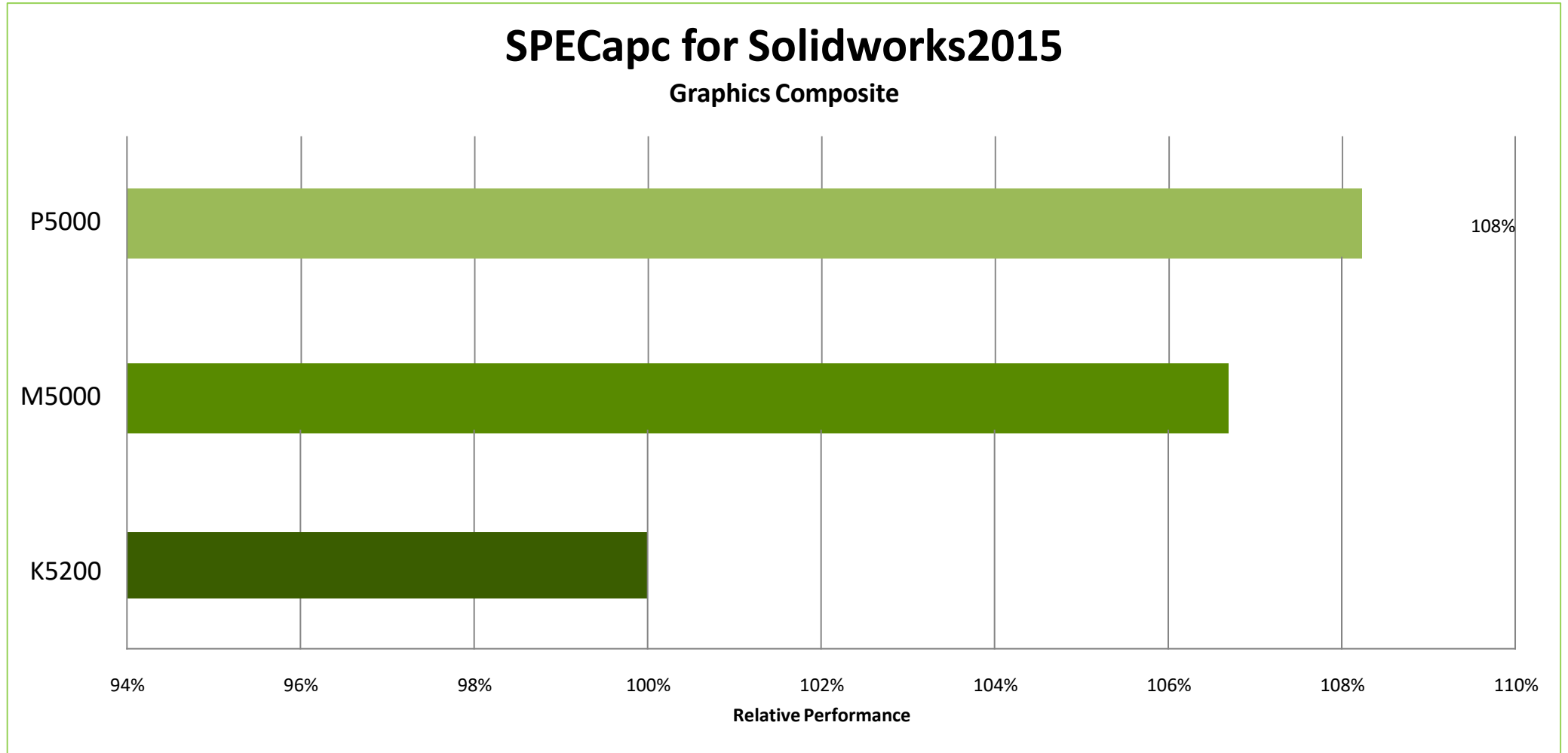
# NVIDIA P5000 VS PREVIOUS GENERATIONS

## SPECapc for NX 8.5

GPU Composite



# NVIDIA P5000 VS PREVIOUS GENERATIONS

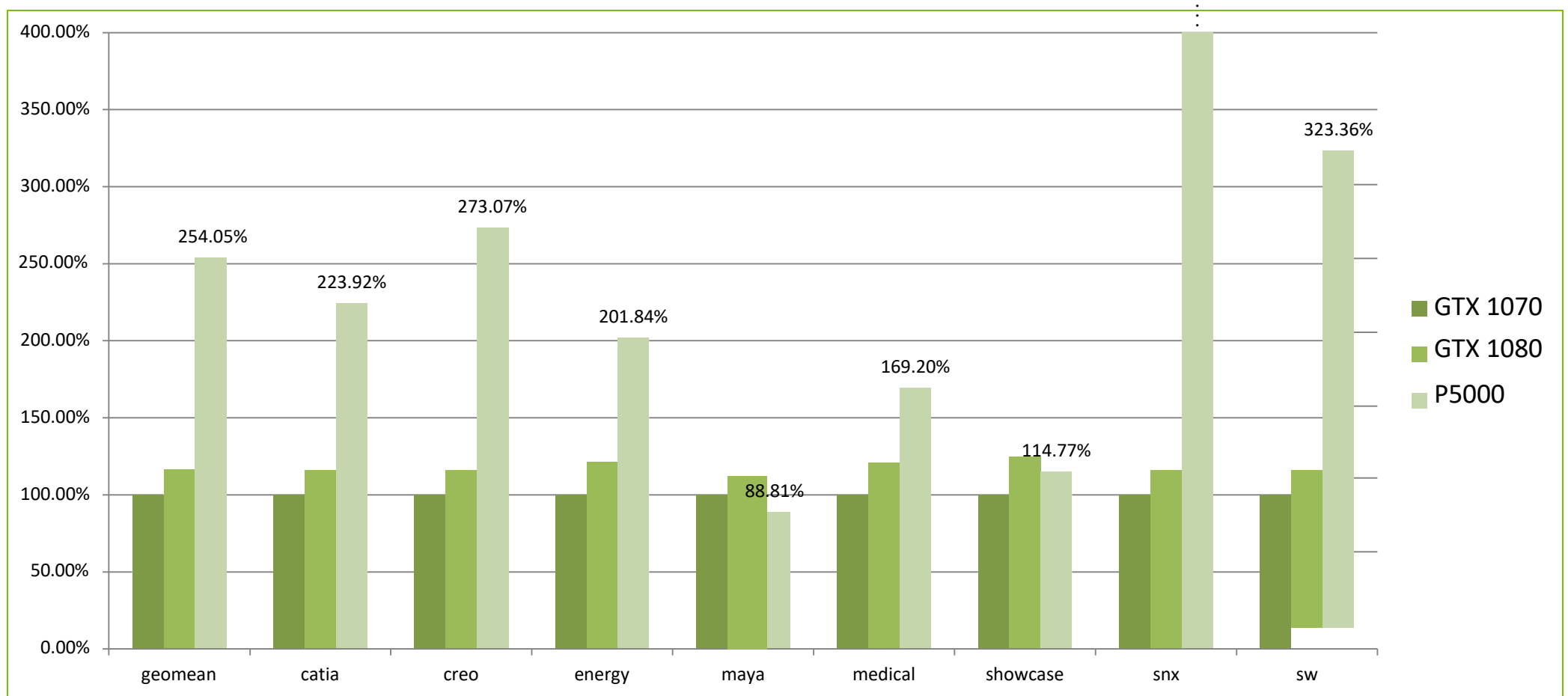


# APPENDIX

- CONSUMER CARD  
COMPARISON CHARTS

# NVIDIA P5000 VS GEFORCE

P5000 > 2X faster than GTX 1080\*

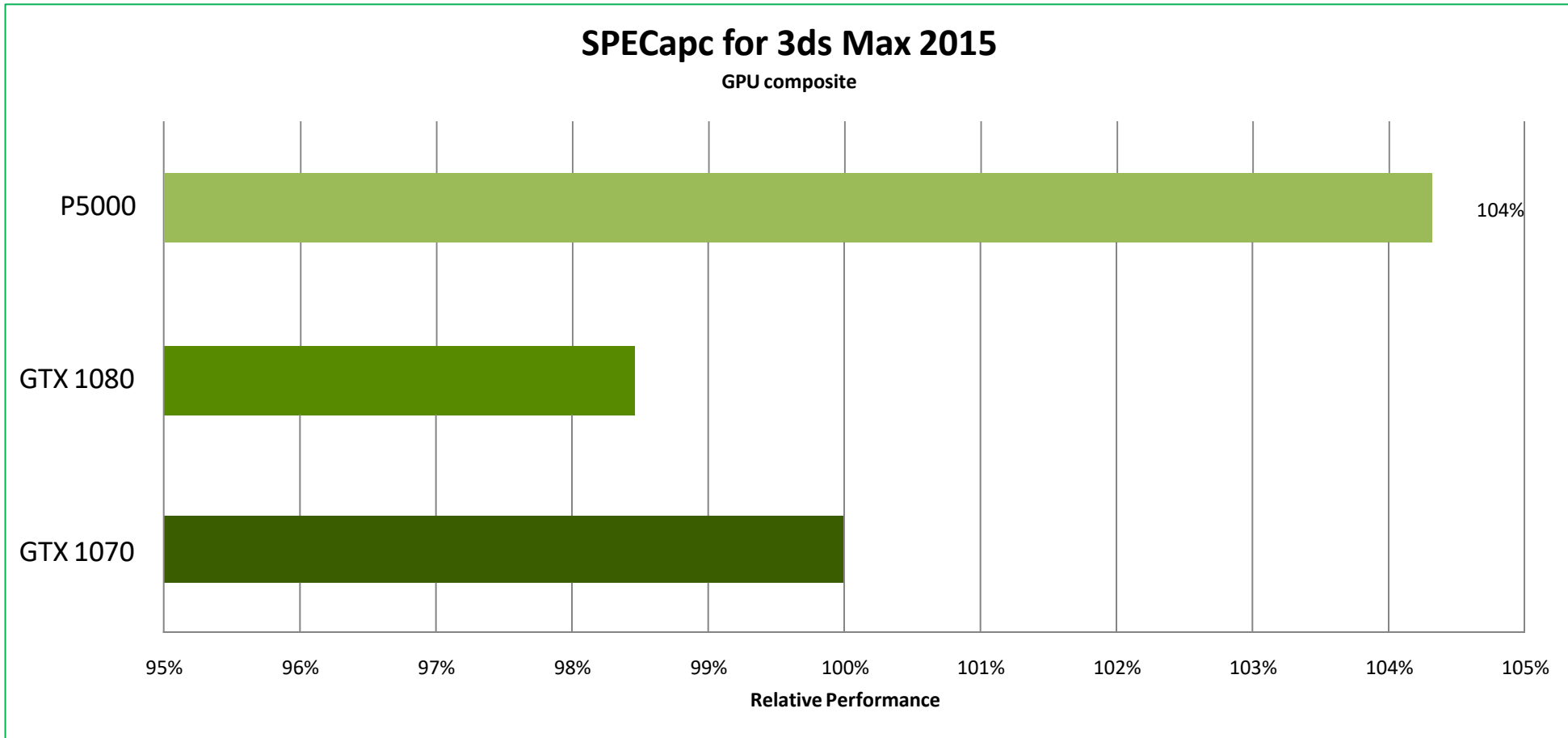


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Performance testing completed with publically available SPECviewperf® 12 benchmark information

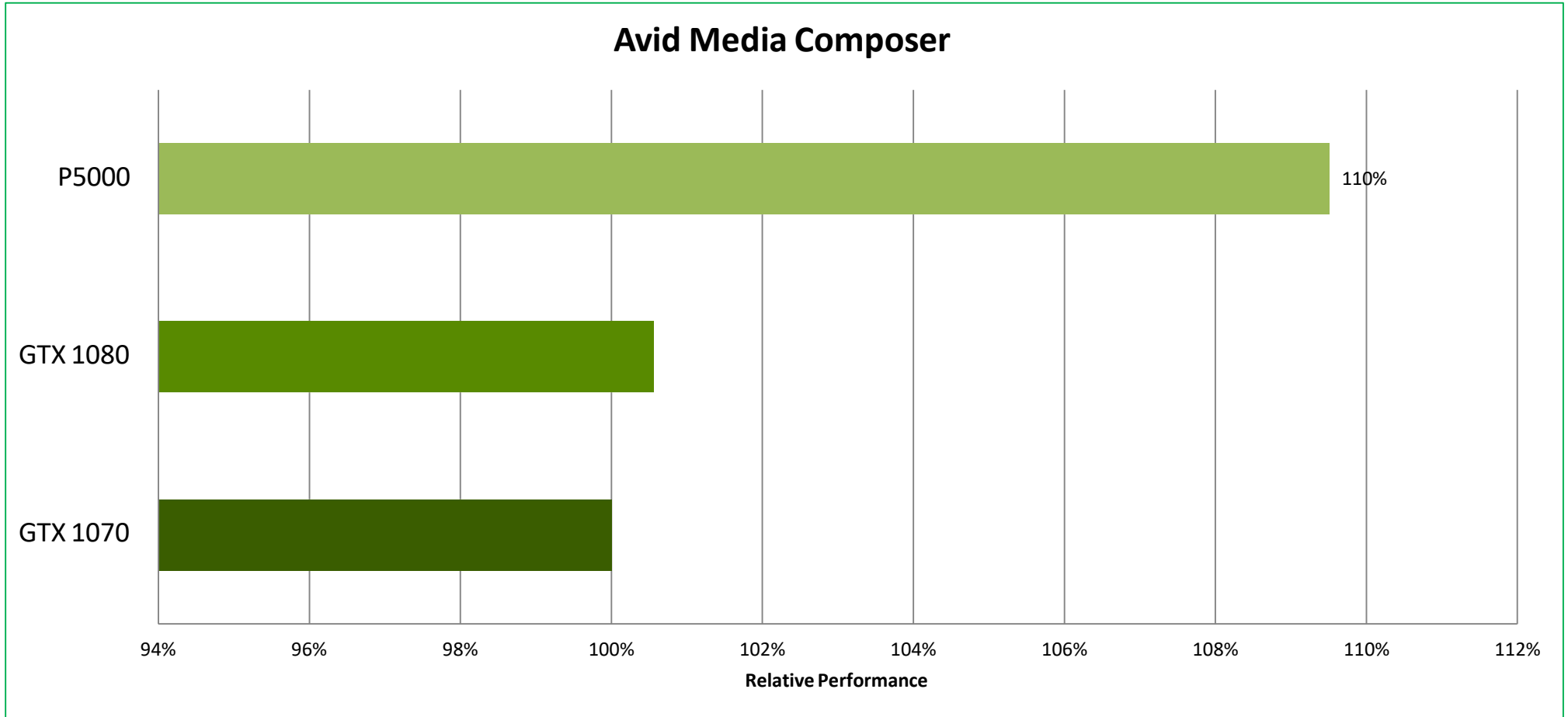
\*based on SPECviewperf 12 Geomean score



# NVIDIA P5000 VS GEFORCE



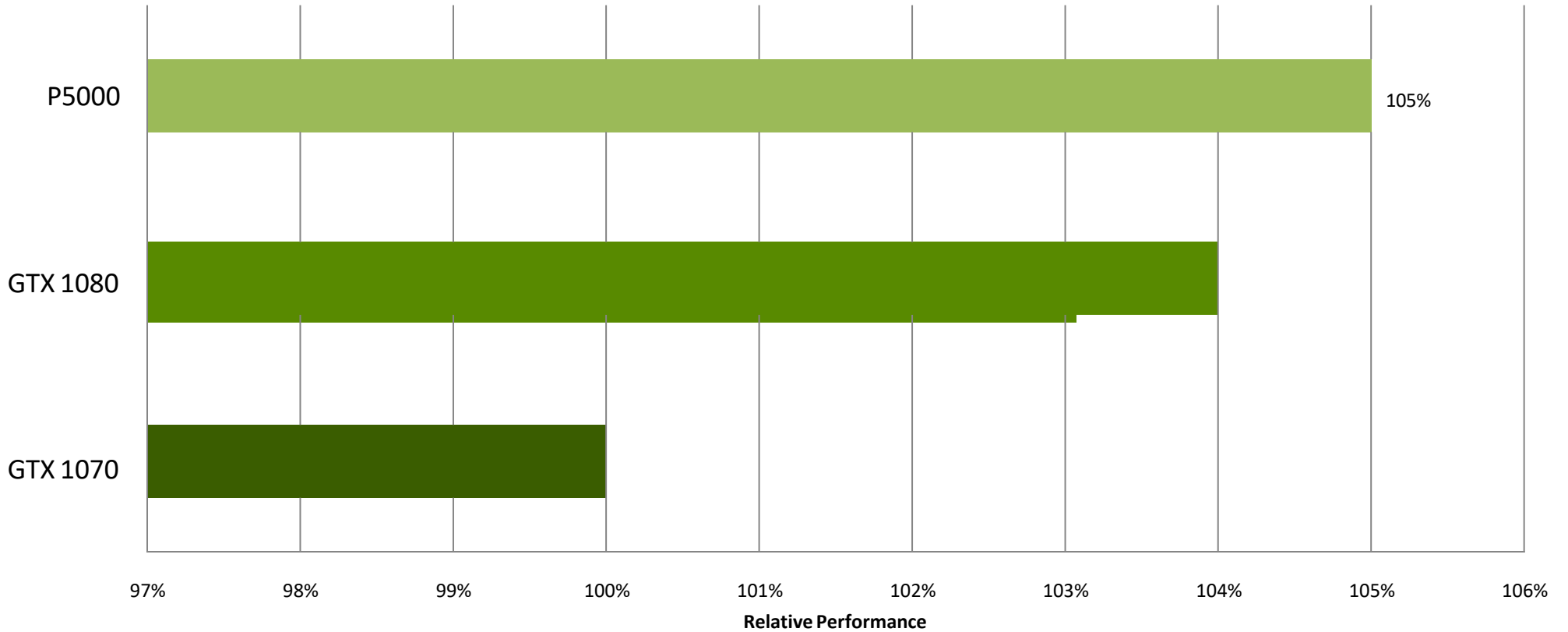
# NVIDIA P5000 VS GEFORCE



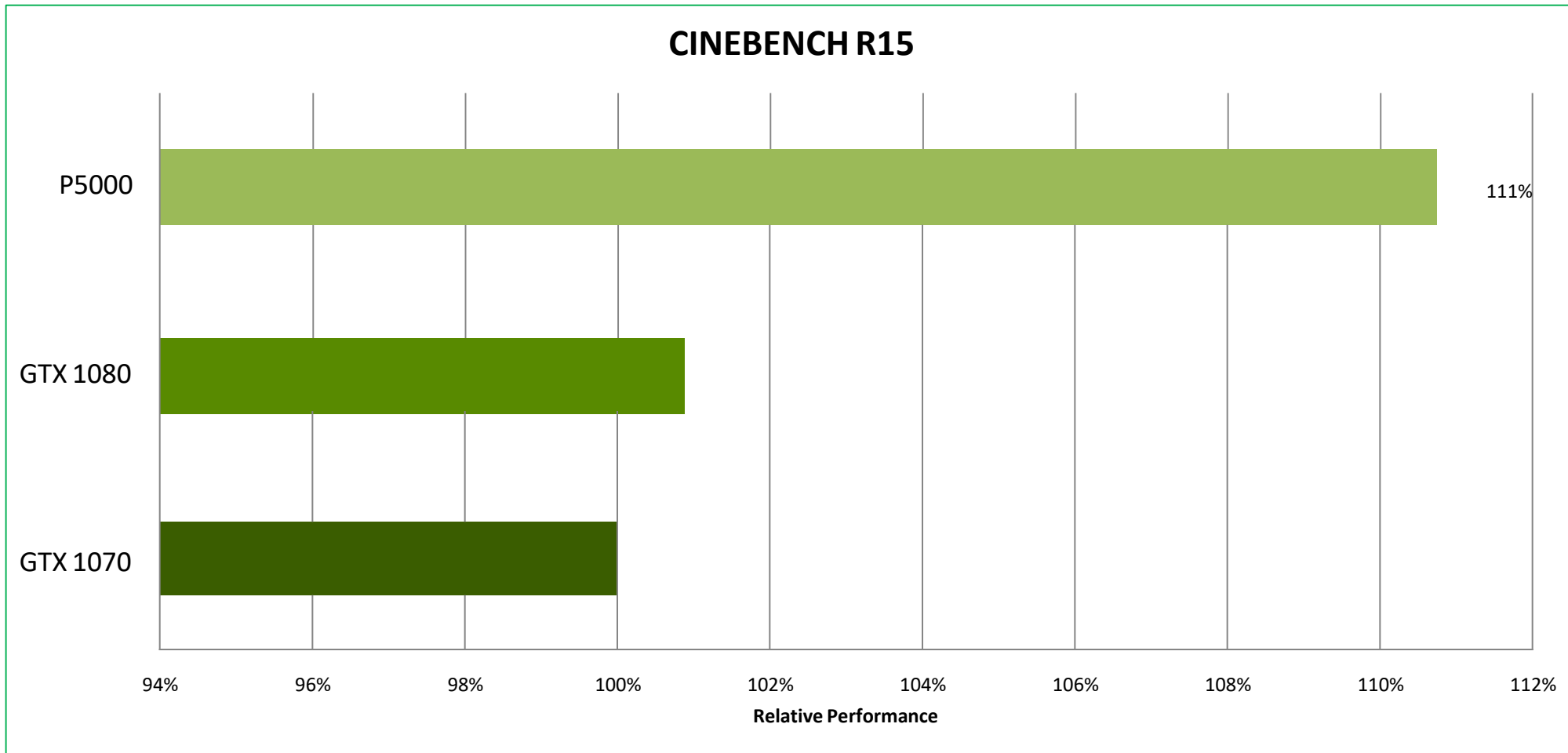
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# NVIDIA P5000 VS GEFORCE

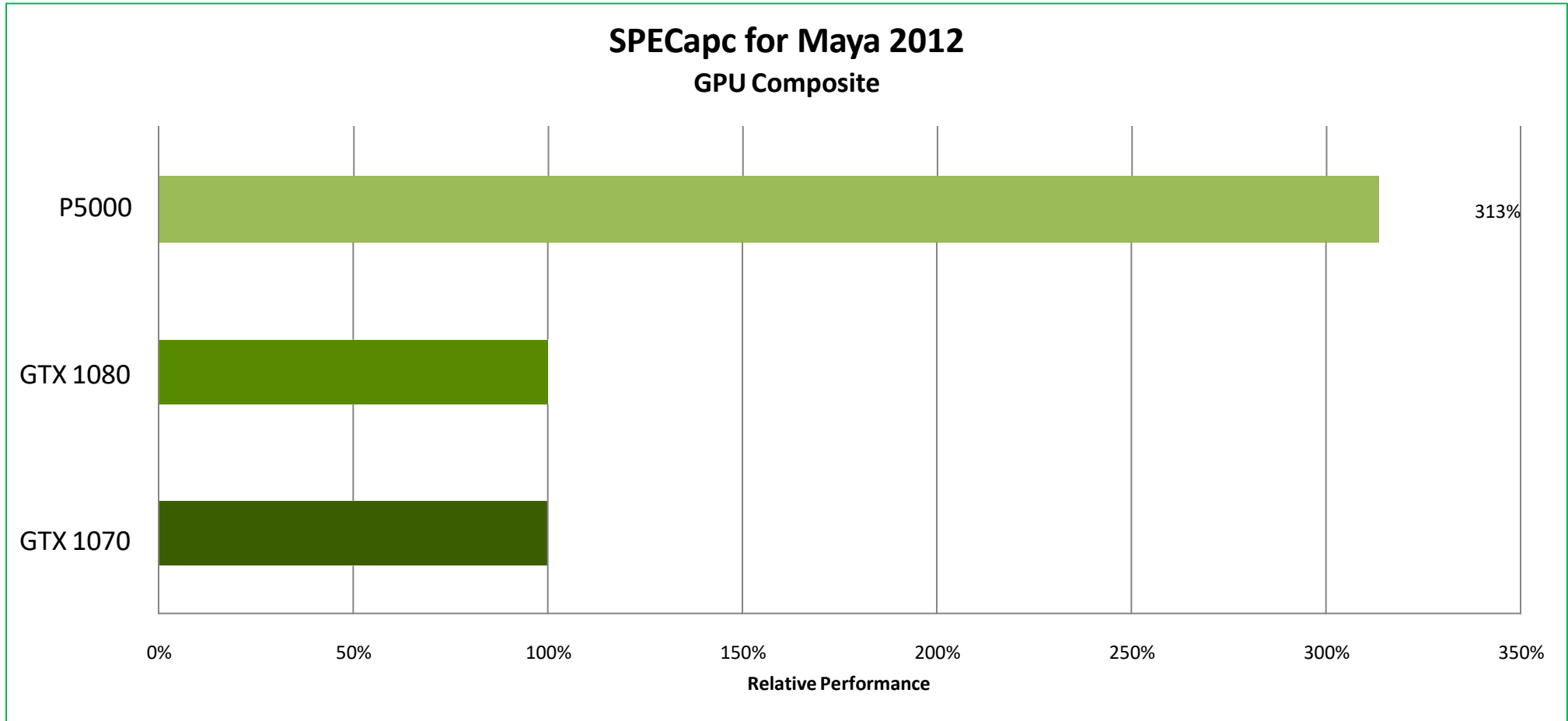
Illustrator CC 2014



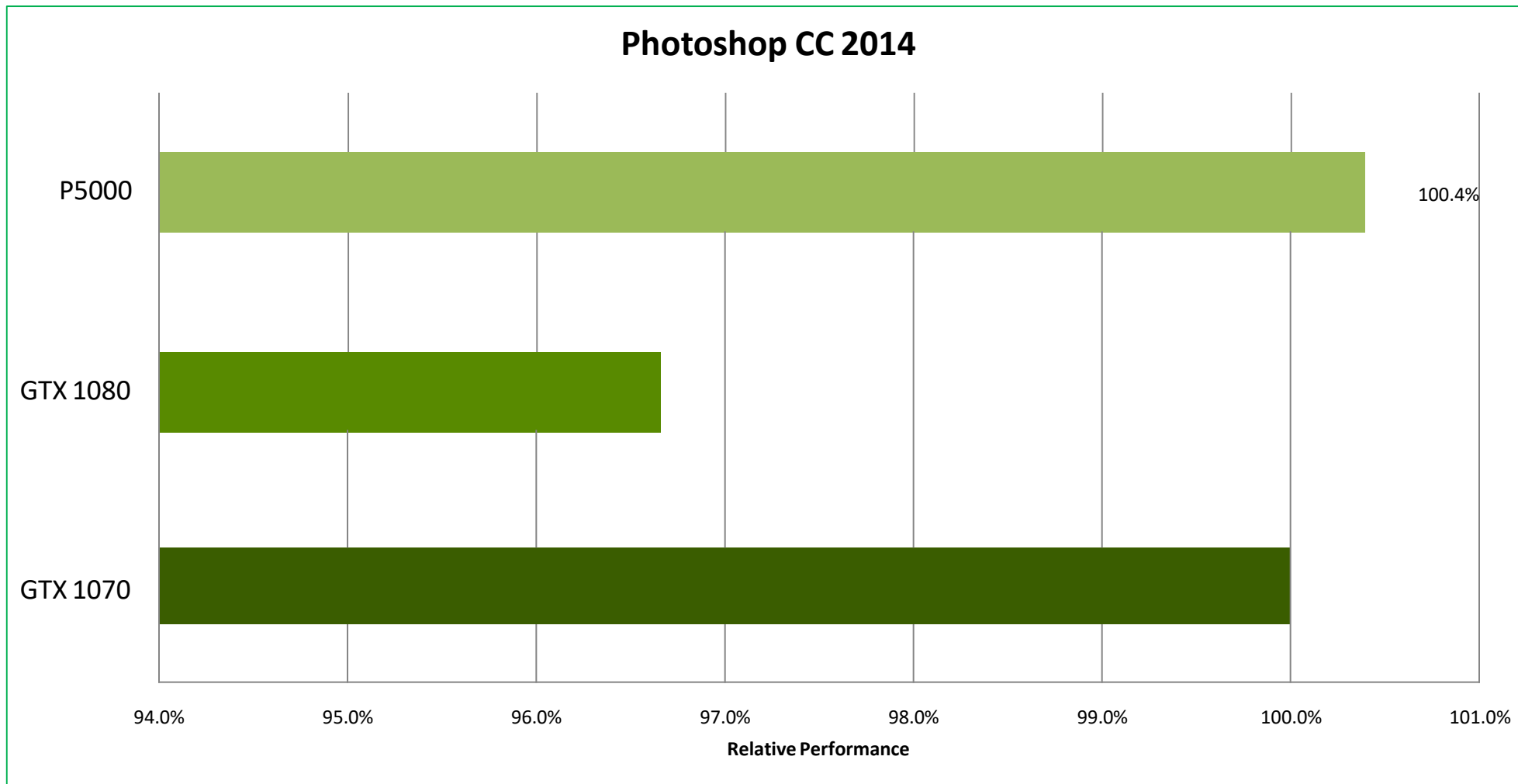
# NVIDIA P5000 VS GEFORCE



# NVIDIA P5000 VS GEFORCE

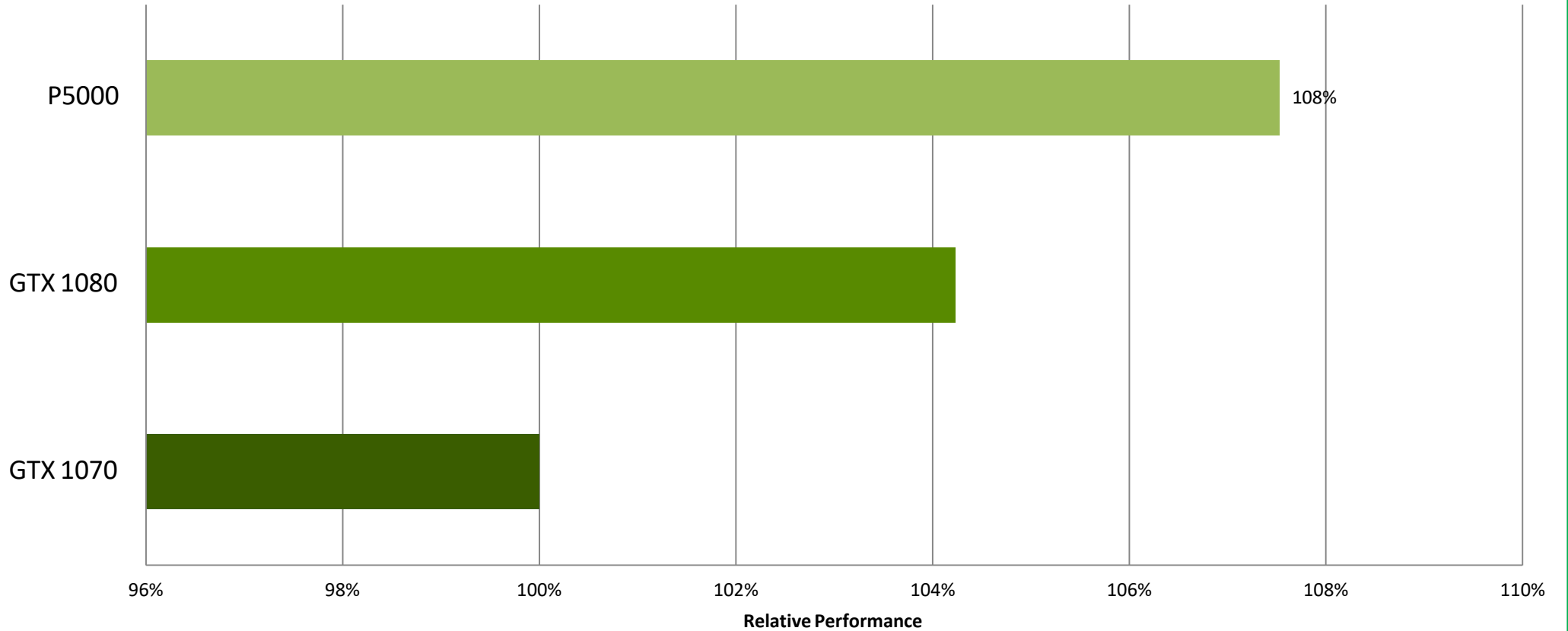


# NVIDIA P5000 VS GEFORCE

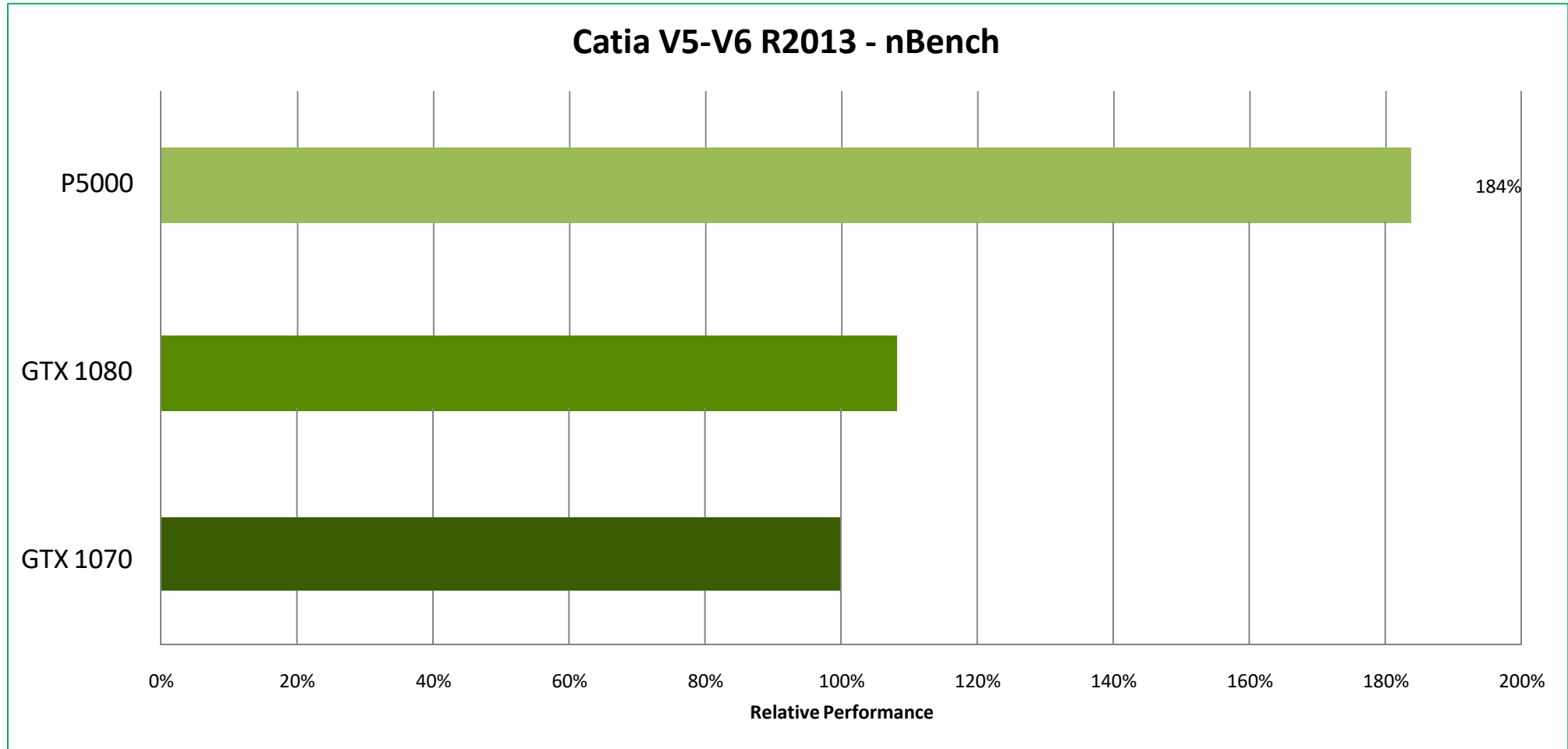


# NVIDIA P5000 VS GEFORCE

Premiere Pro 2014

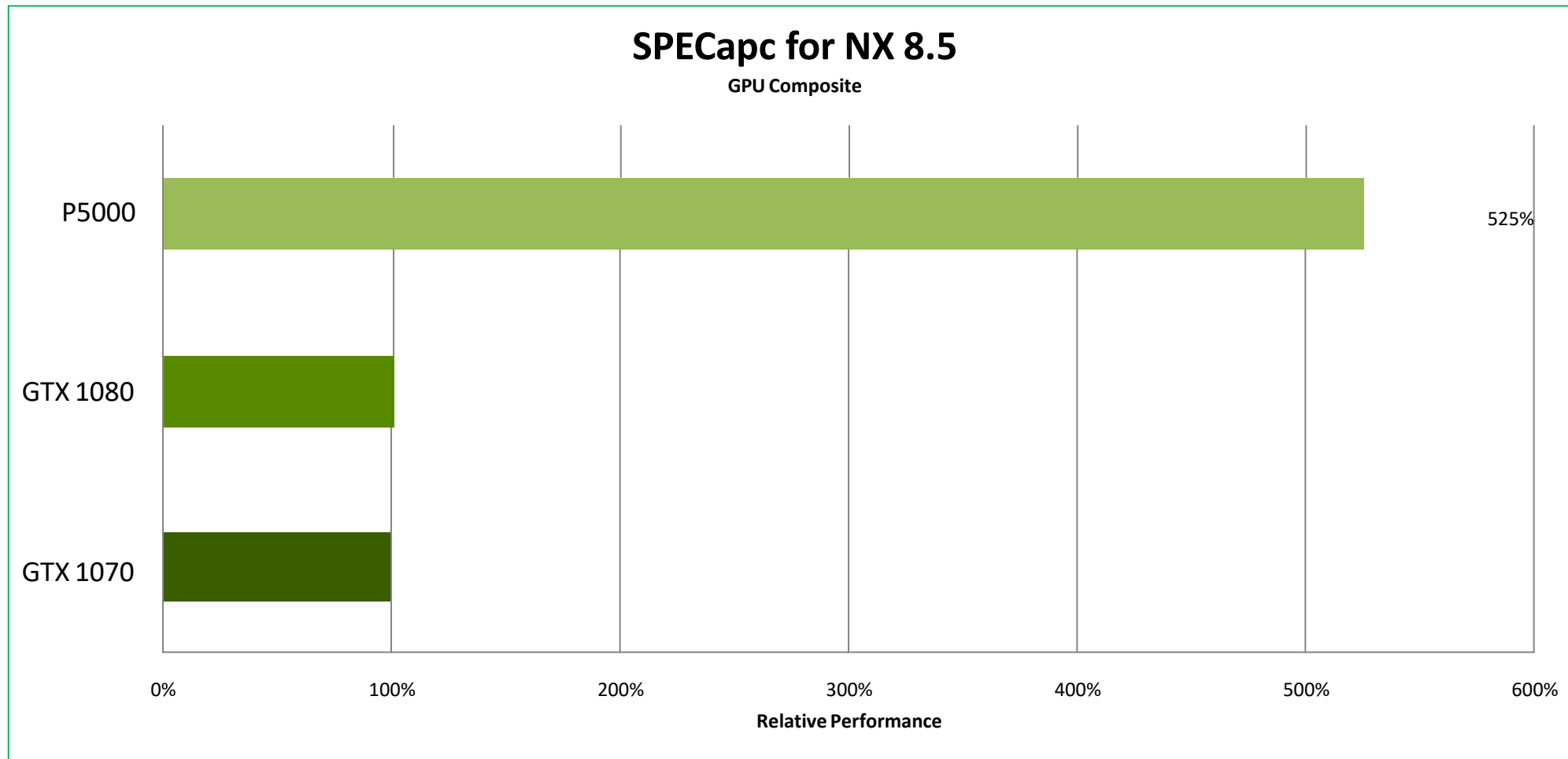


# NVIDIA P5000 VS PREVIOUS GENERATIONS





# NVIDIA P5000 VS GEFORCE



# NVIDIA P5000 VS GEFORCE

