

QUADRO P6000



NVIDIA Quadro Desktop Products

Most demanding rendering and GPGPU compute applications

P6000 24GB

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

New
P6000 24GB

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

P5000 16GB

Large/complex CAD models, Advanced DCC, Medical Imaging

M4000 8GB

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

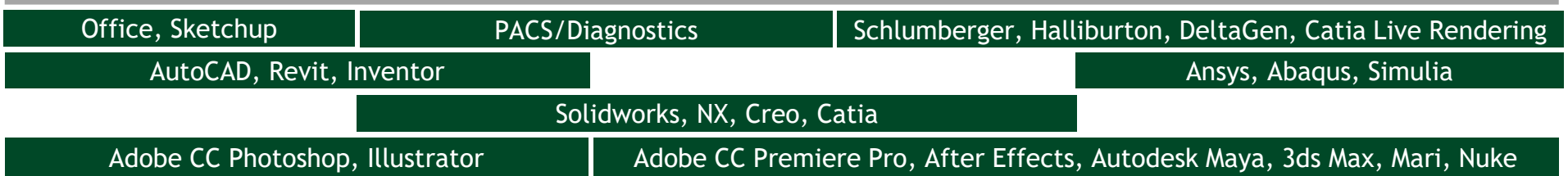
M2000 4GB

K1200 4GB LP

Small/simple CAD models, video, Entry PLM

K620 2GB LP

K420 2GB LP



QUADRO P6000

- SPECIFICATIONS
- PERFORMANCE

QUADRO P6000



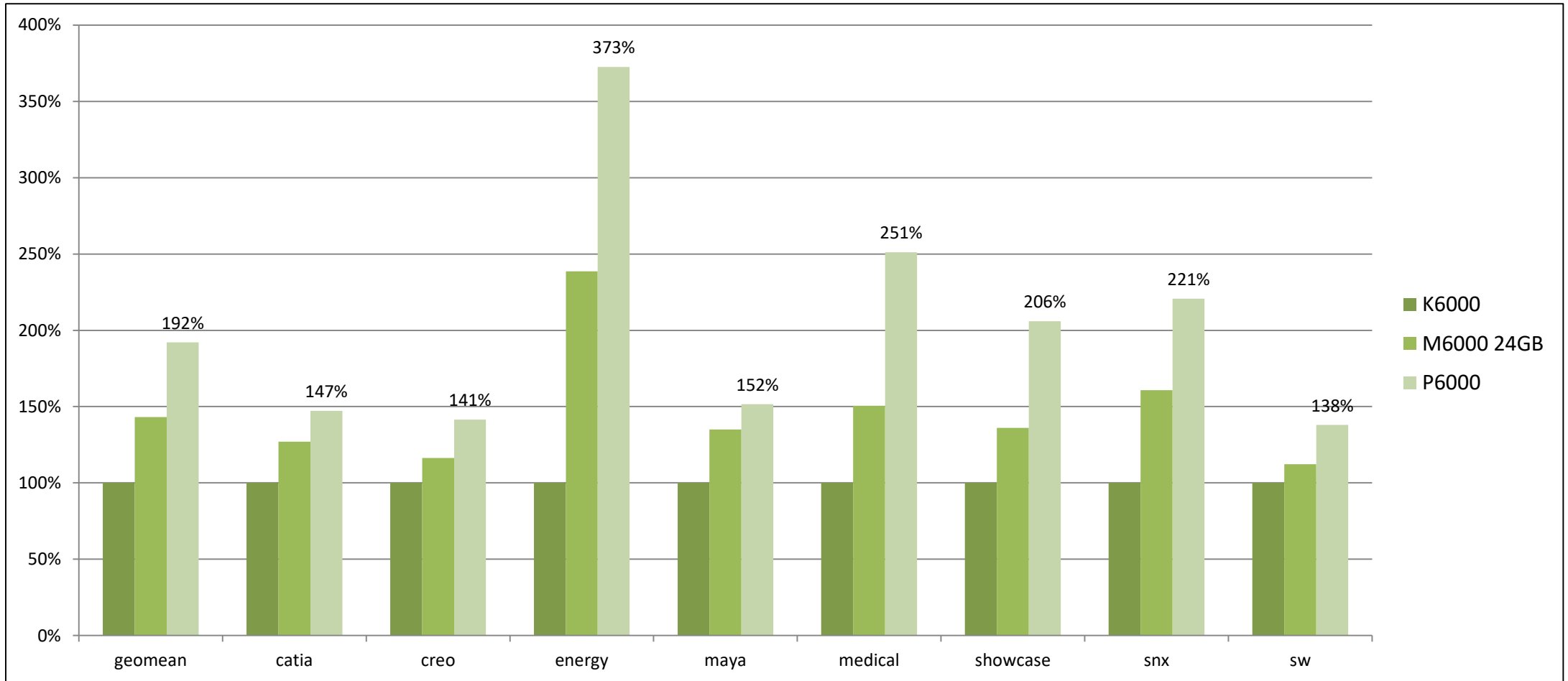
GPU ARCHITECTURE	Pascal
CUDA CORES	3840
MEMORY CAPACITY	24 GB GDDR5X
GRAPHICS BUS	PCI EXPRESS 3.0
DISPLAY CONNECTORS	4x DP 1.4 + 1x DVI-D
DISPLAY SUPPORT	4X 4096x2160 @ 120HZ 4X 5120x2880 @ 60Hz

QUADRO P6000 VS M6000 24GB

	M6000 24GB	P6000	Benefits
GPU Architecture	Maxwell	Pascal	Most Powerful and Efficient GPU
# CUDA Cores	3,072	3840	Faster compute & rendering performance
Memory Size	24 GB	24 GB GDDR5X	Faster memory performance - Real-Time Interactivity with Large Complex Assemblies, visually detailed VR environments
Memory BW	Up to 317 GB/s	Up to 432 GB/s	Move data to and from GPU faster
Display Support	4x DP + 1x DVI	4x DP + 1x DVI-D	Enabling 4 5K displays
Advanced Display	SYNC	SYNC 2	Synchronize up to 8 GPUs per system
Board Power	225 W or 250 W	250W	
Power Connector	1x 8-pin PCIe	1x 8-pin PCIe	Simplified Connectivity

NVIDIA P6000 VS PREVIOUS GENERATION

SPECviewperf 12 Performance: P6000 ~ 2X faster than K6000*

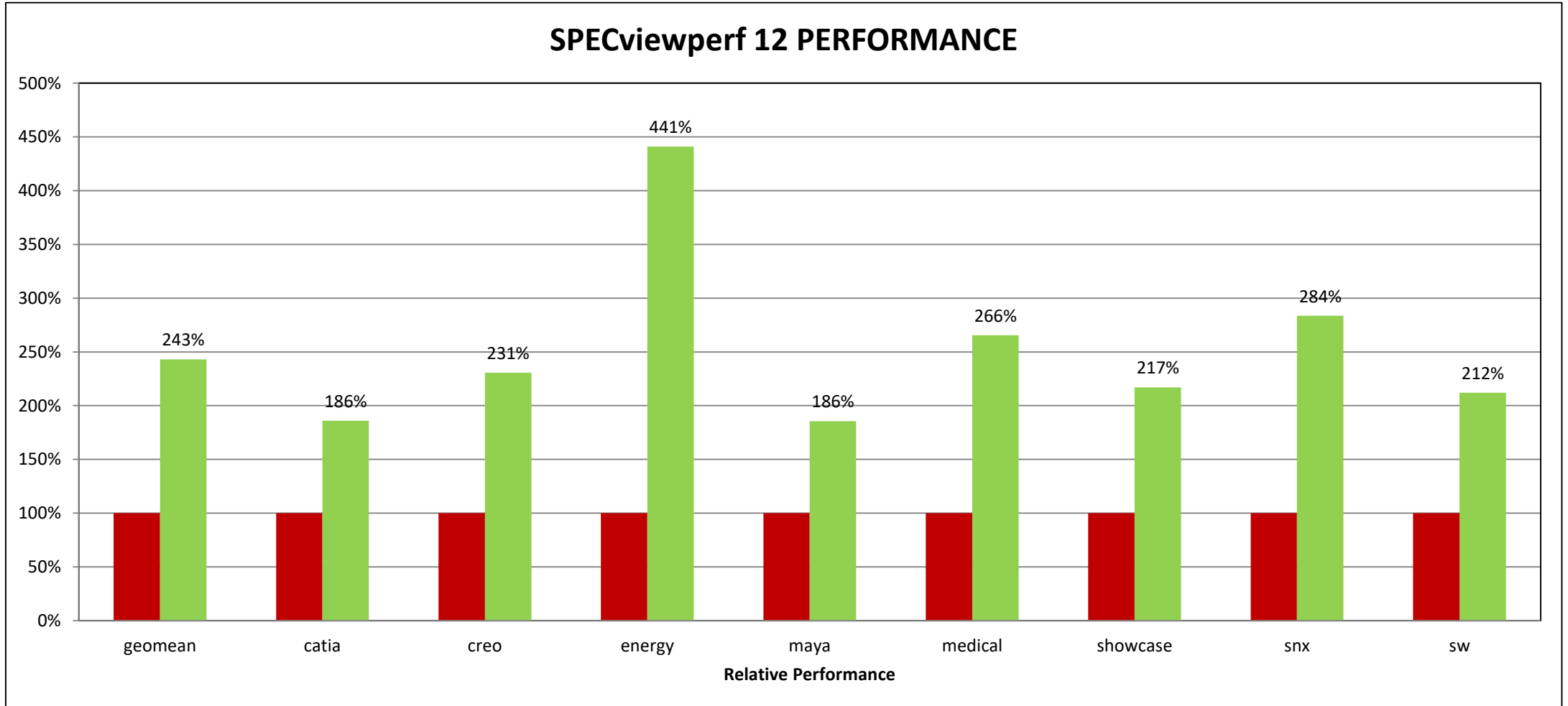


Tests run on an Intel Xeon E5 2697 V3 CPU 2.6GHz (3.6GHz turbo), 32GB RAM, Win 7 64bit SP1. Performance testing completed with publically available SPECviewperf® 12 benchmark information

*based on SPECviewperf 12 Geomean score

NVIDIA P6000 VS AMD W9100

P6000 > 2X faster than W9100*



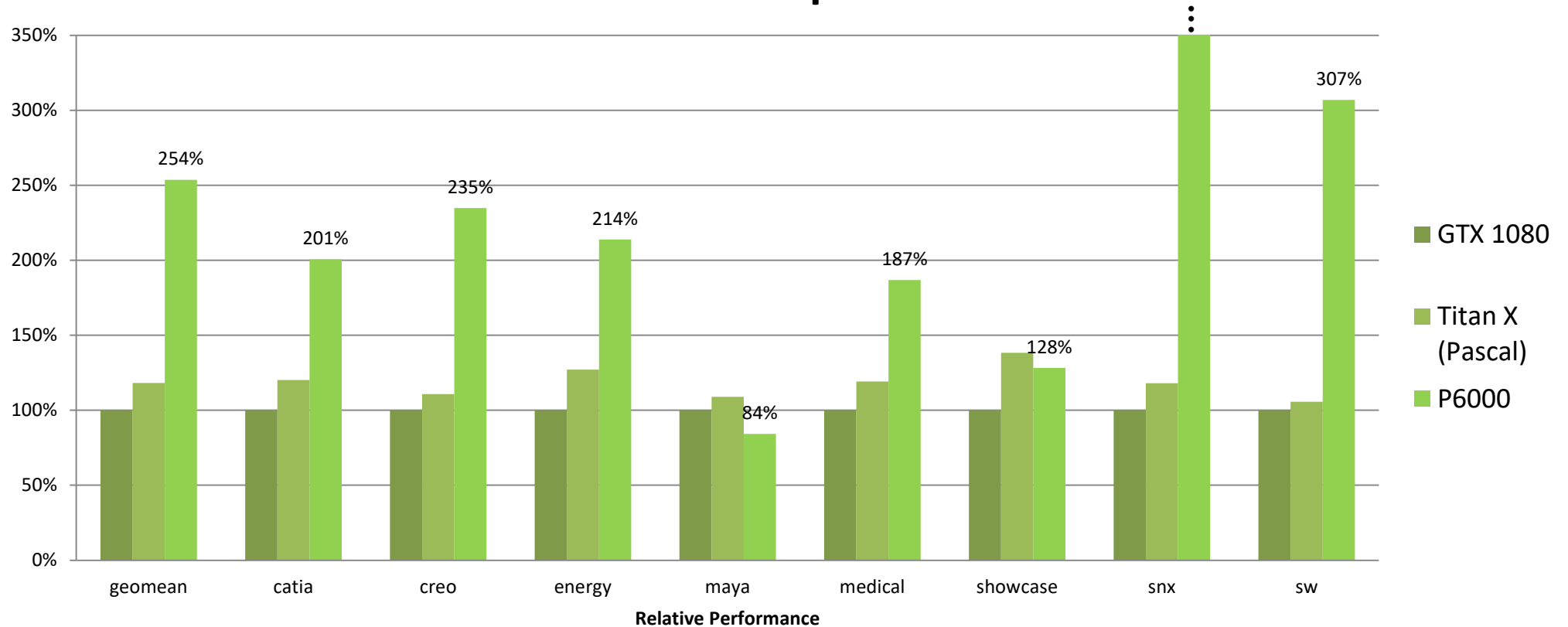
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*based on SPECviewperf 12 Geomean score

NVIDIA P6000 VS GEFORCE

P6000 ~ 2X faster than TitanX*

SPECviewperf 12



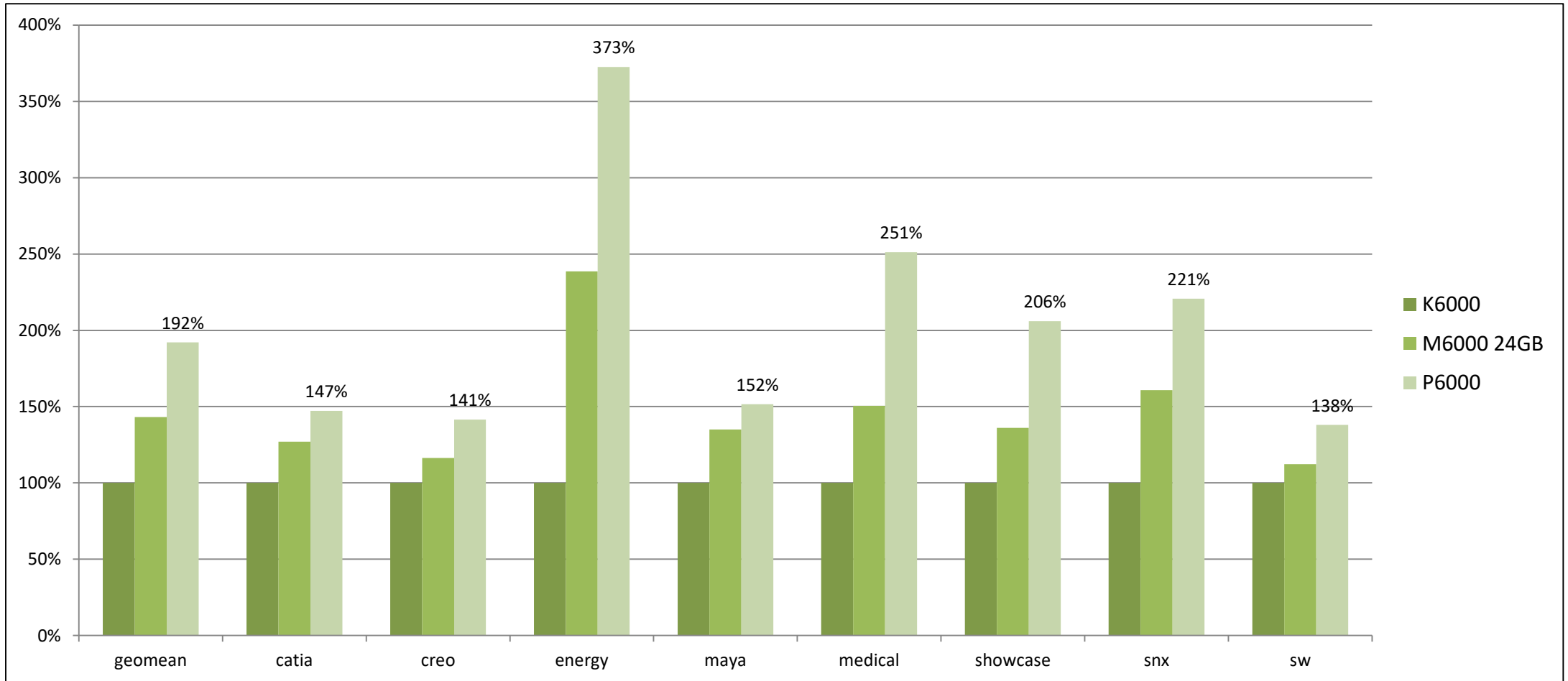
APPENDIX PERFORMANCE CHARTS

APPENDIX

- **PREVIOUS GENERATION
CHARTS**

NVIDIA P6000 VS PREVIOUS GENERATION

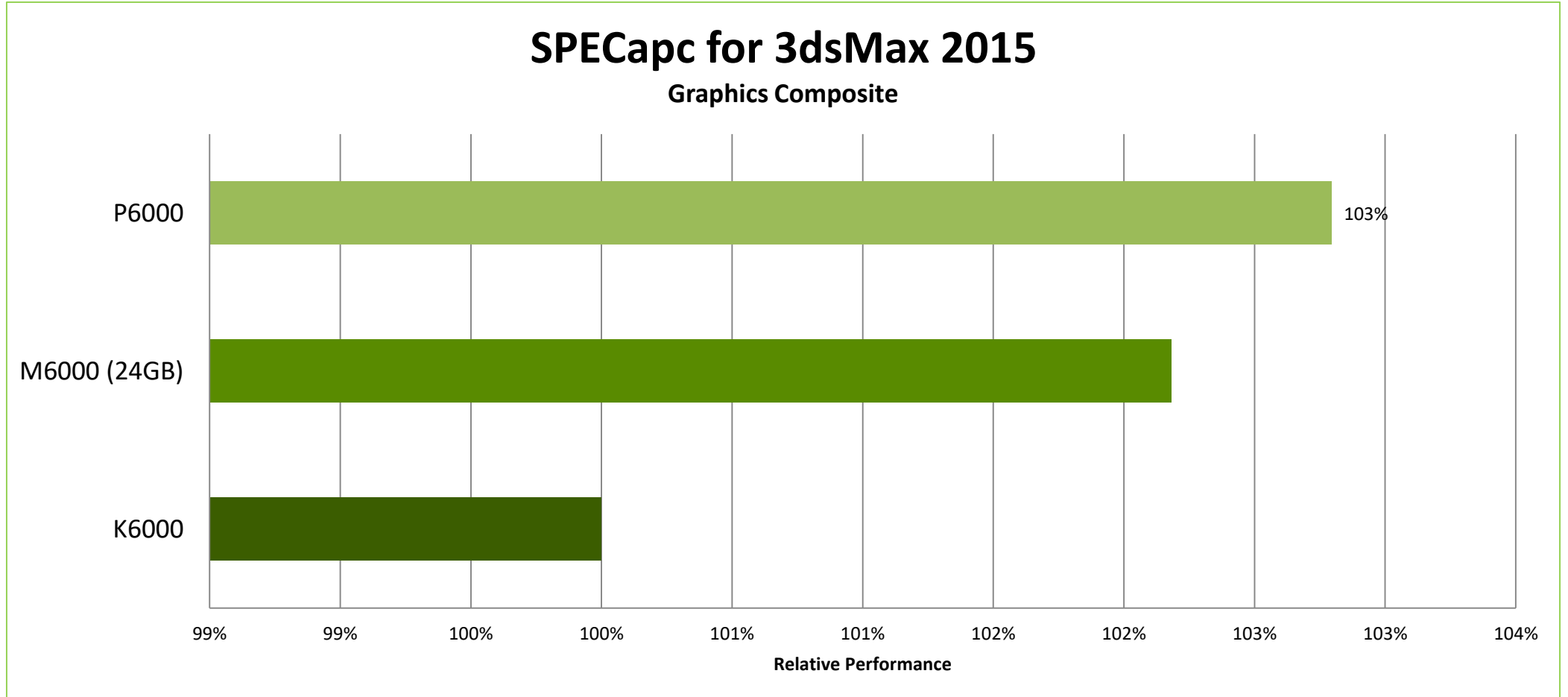
SPECviewperf 12 Performance: P6000 ~ 2X faster than K6000*



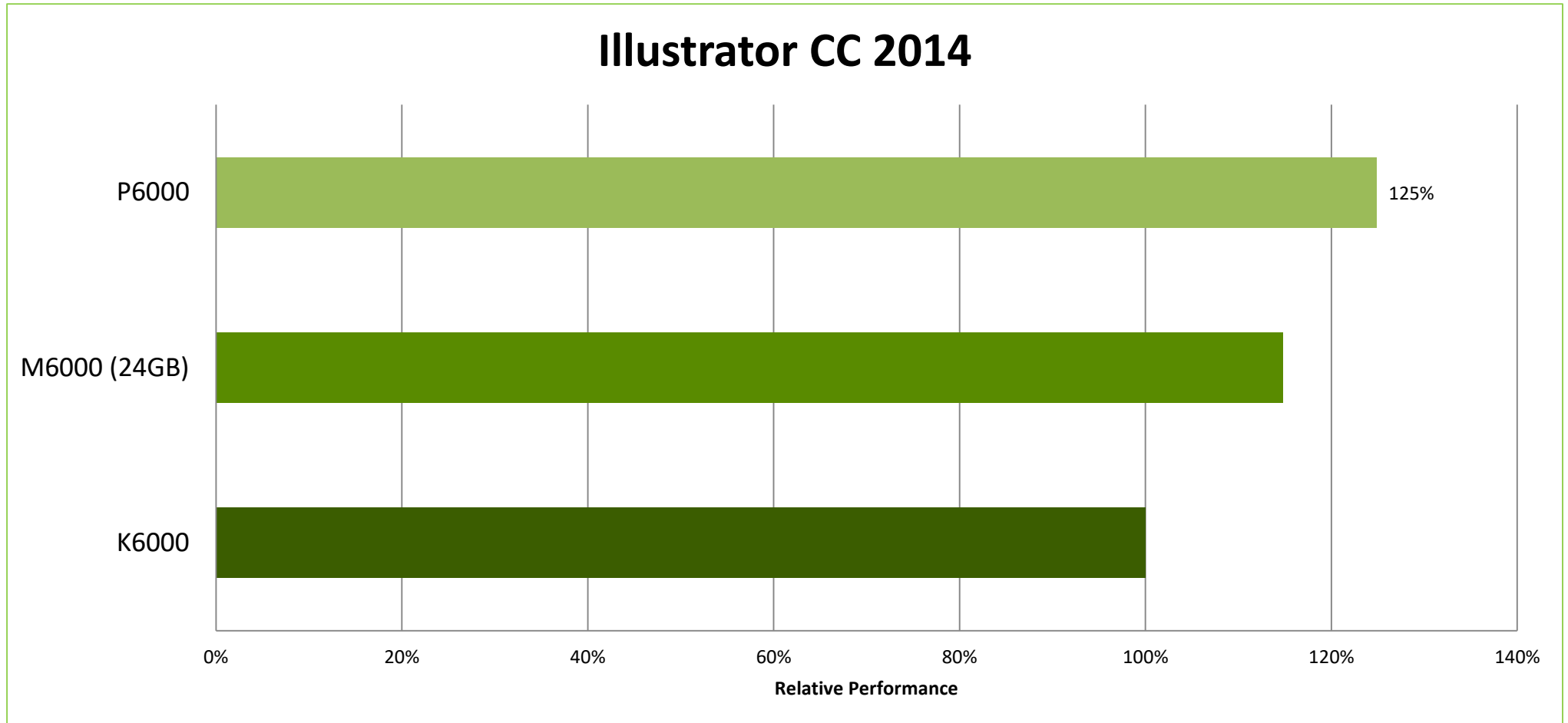
Tests run on an Intel Xeon E5 2697 V3 CPU 2.6GHz (3.6GHz turbo), 32GB RAM, Win 7 64bit SP1. Performance testing completed with publically available SPECviewperf® 12 benchmark information

*based on SPECviewperf 12 Geomean score

NVIDIA P6000 VS PREVIOUS GENERATIONS

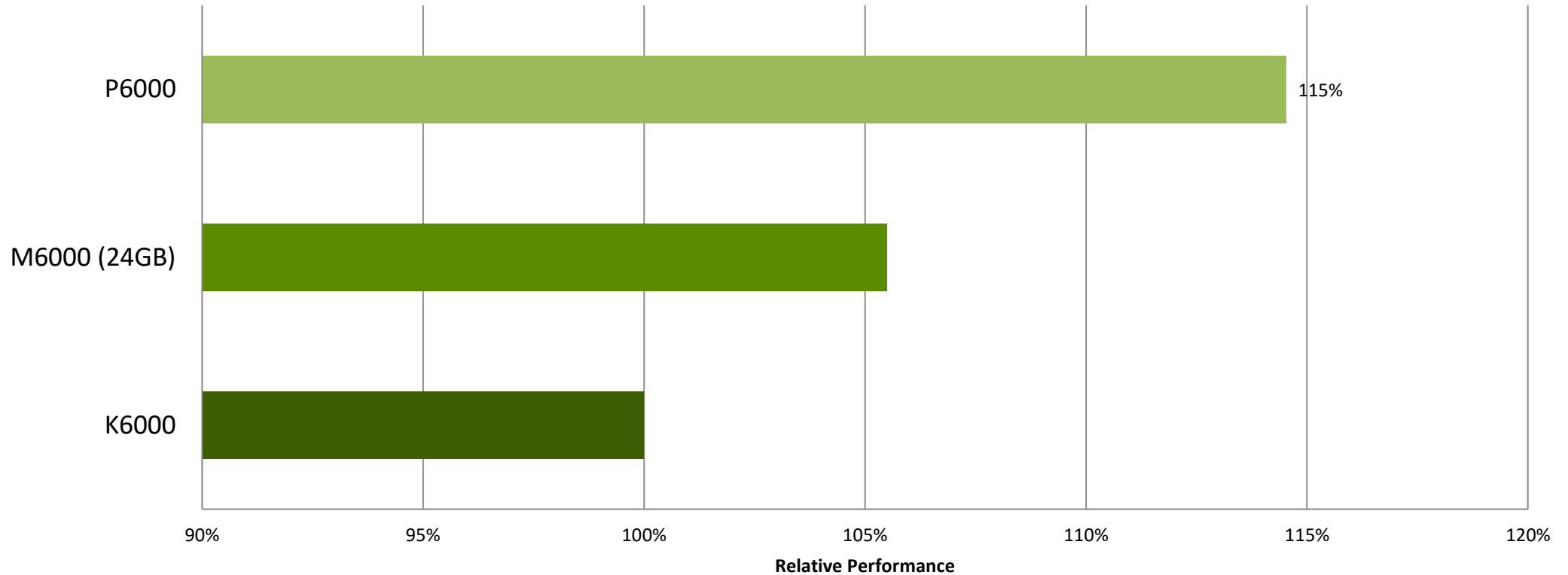


NVIDIA P6000 VS PREVIOUS GENERATIONS

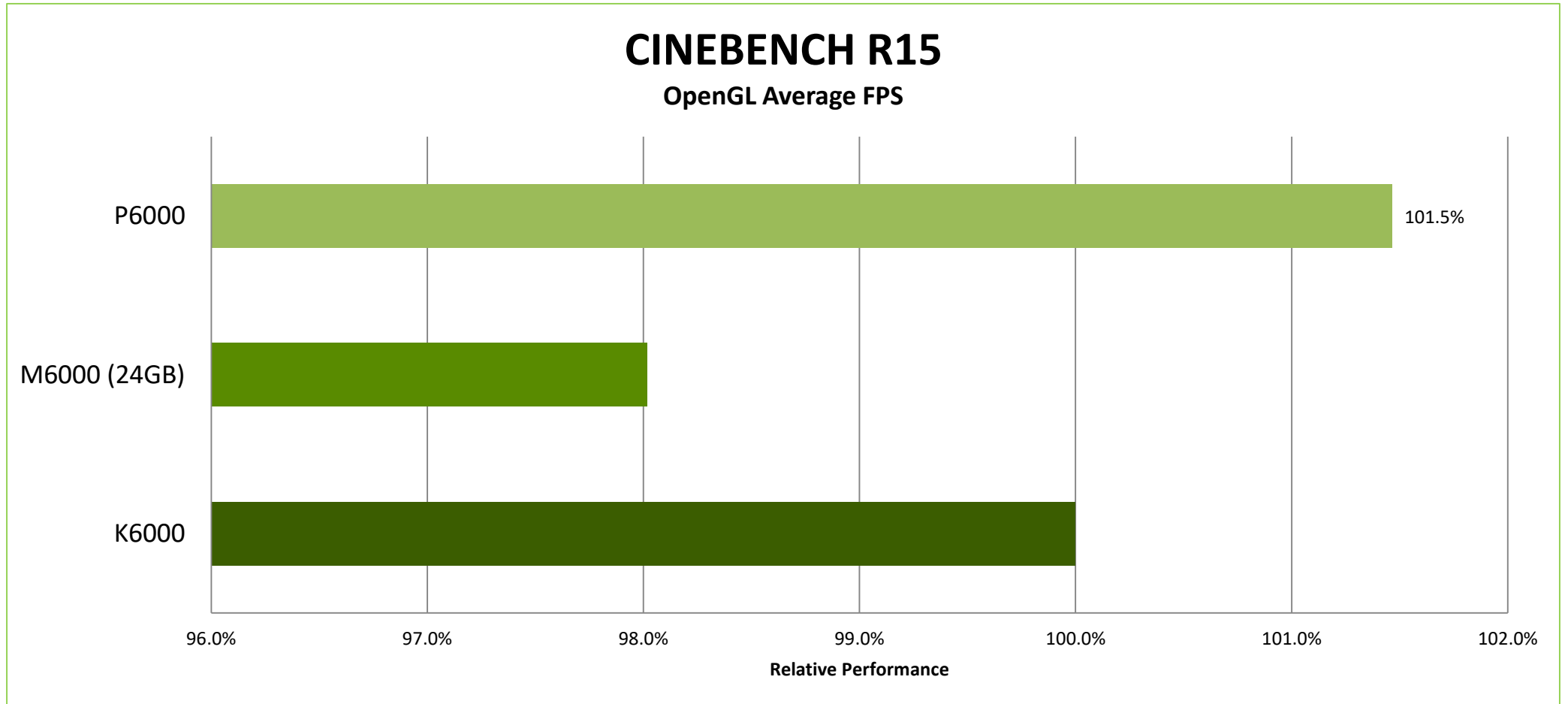


NVIDIA P6000 VS PREVIOUS GENERATIONS

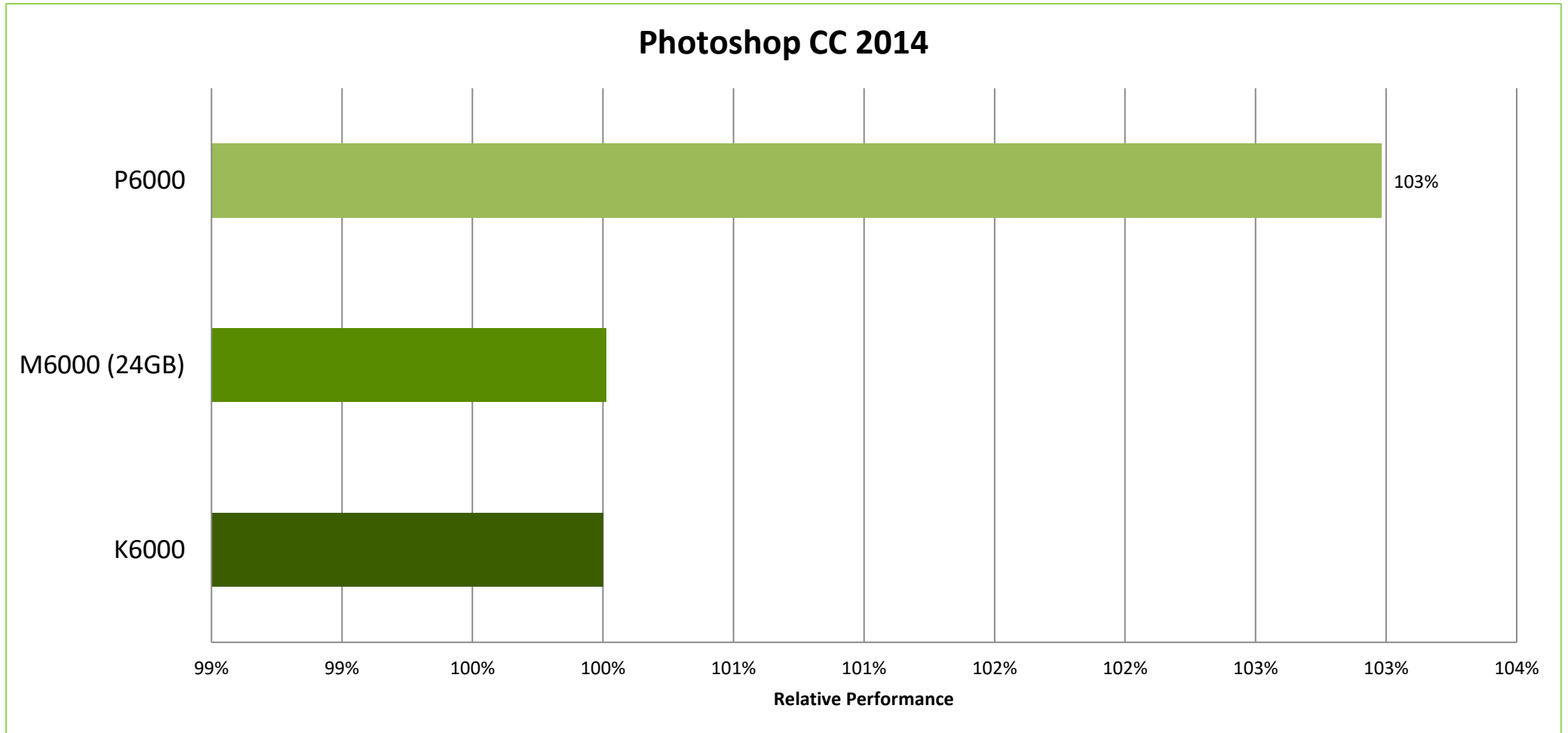
SPECapc for Maya 2012 Graphics Composite



NVIDIA P6000 VS PREVIOUS GENERATIONS

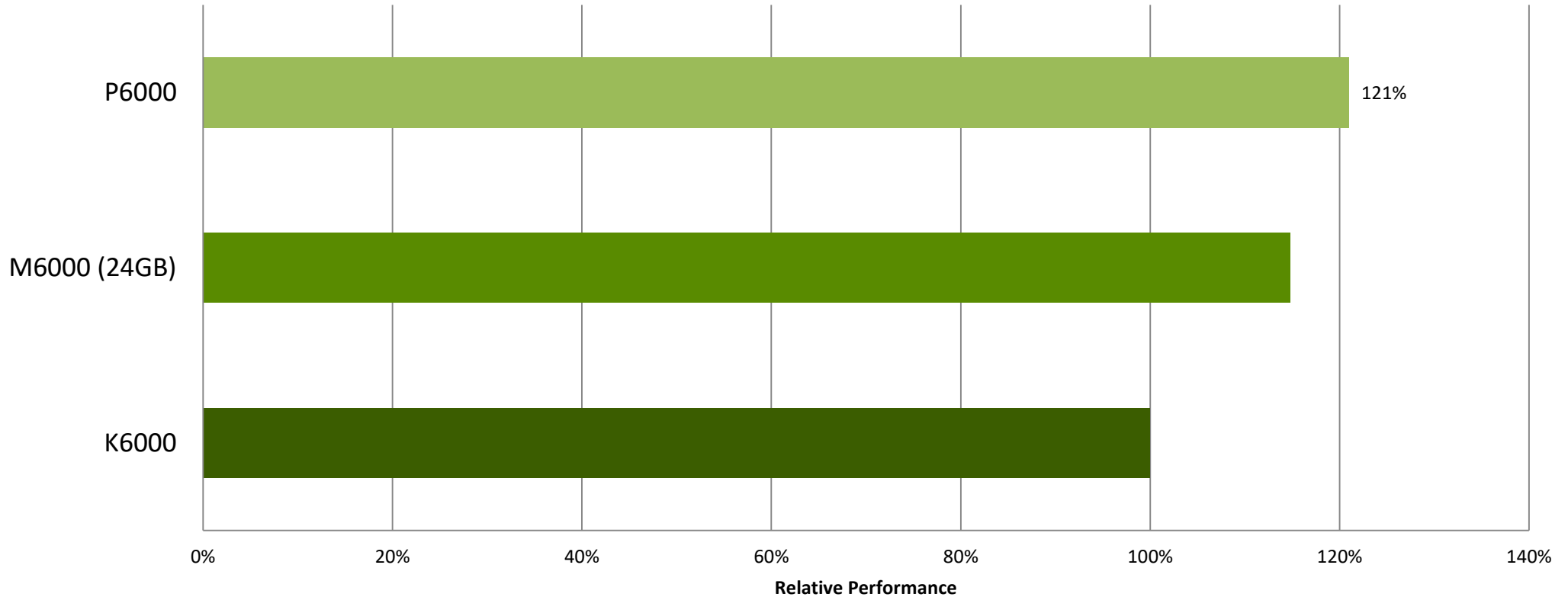


NVIDIA P6000 VS PREVIOUS GENERATIONS

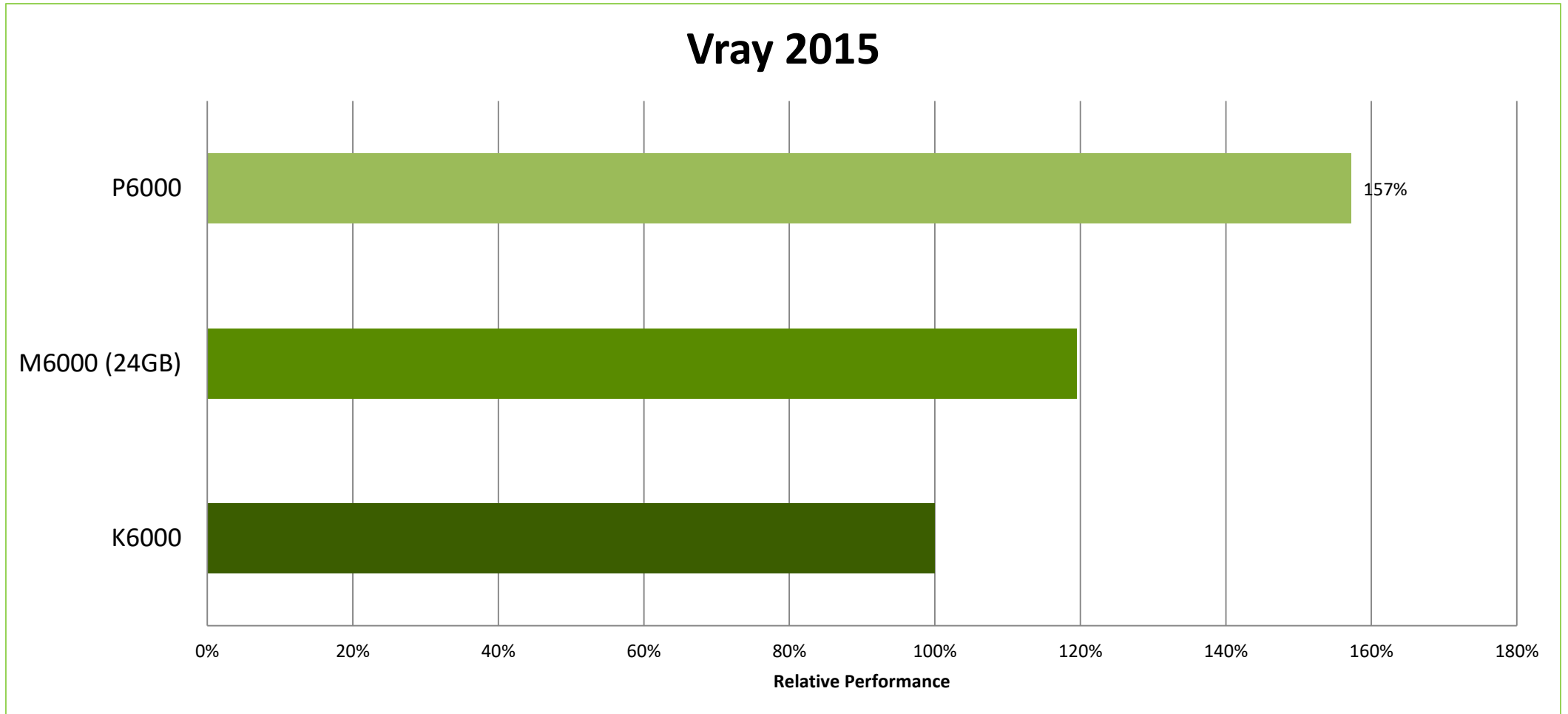


NVIDIA P6000 VS PREVIOUS GENERATIONS

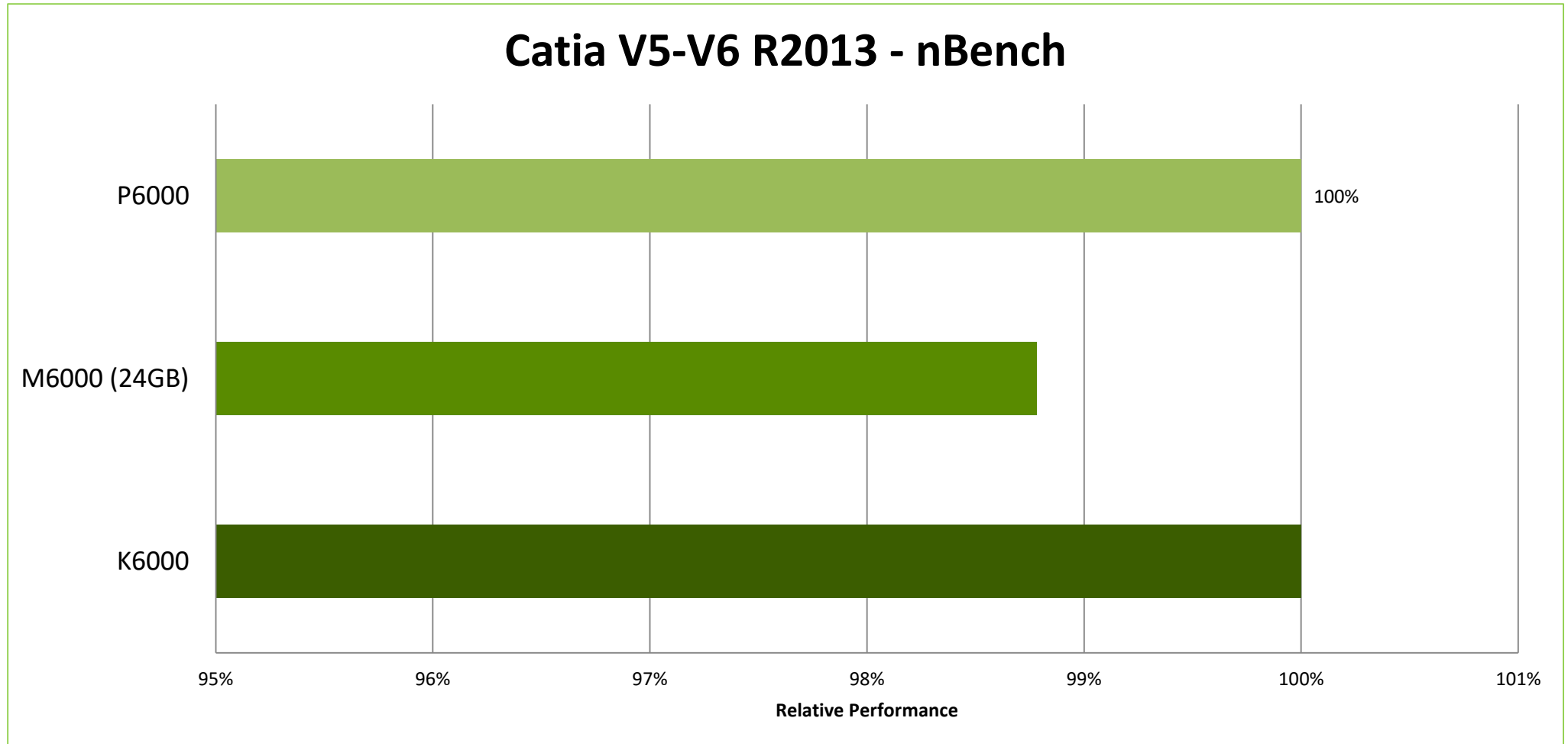
Vegas Pro 13



NVIDIA P6000 VS PREVIOUS GENERATIONS

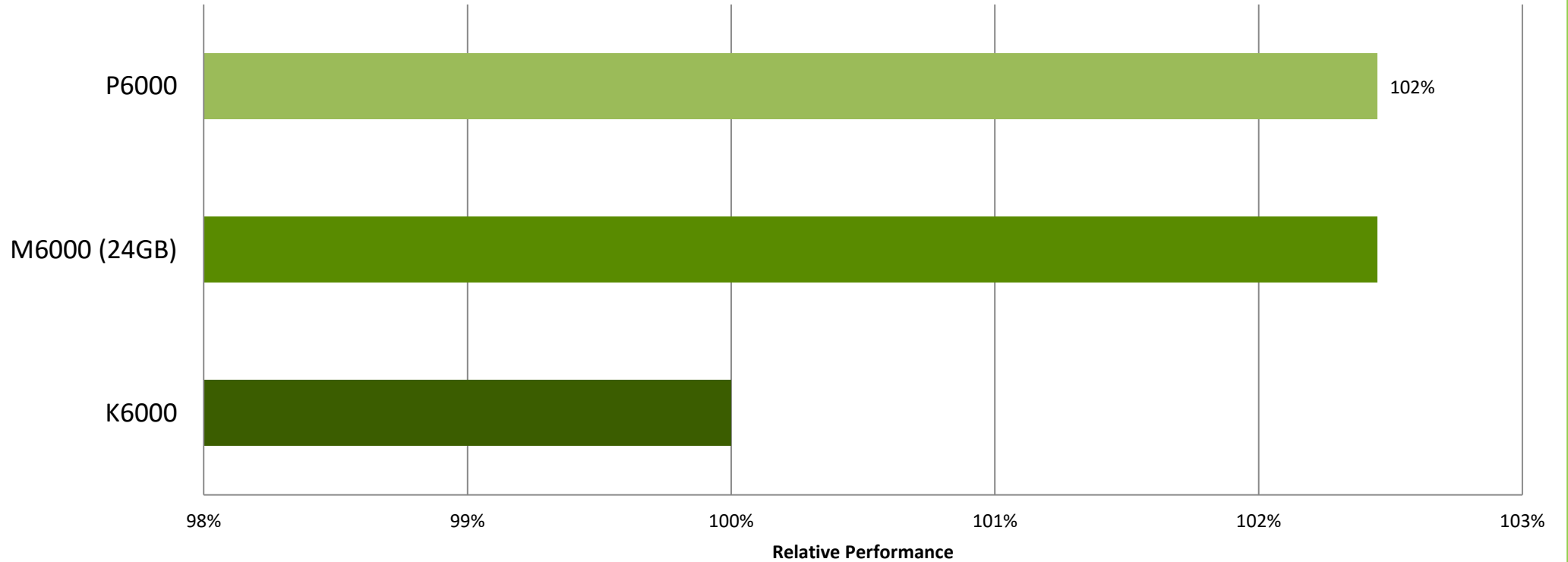


NVIDIA P6000 VS PREVIOUS GENERATIONS



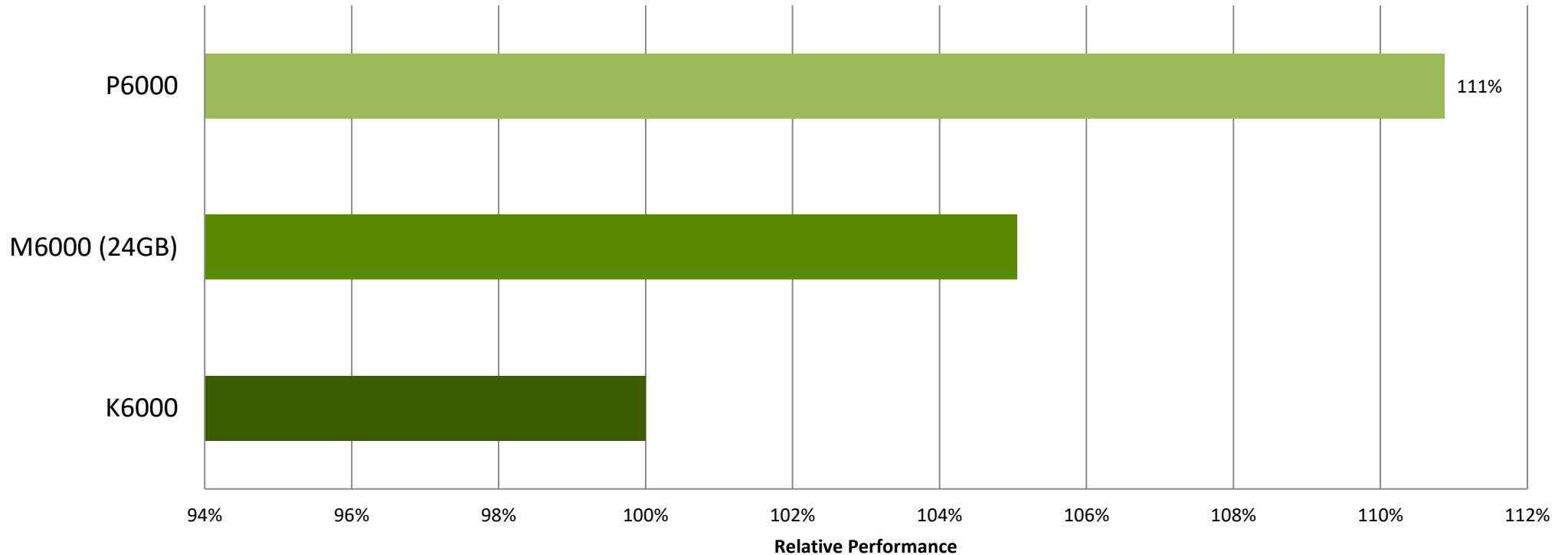
NVIDIA P6000 VS PREVIOUS GENERATIONS

SPECapc for NX 8.5
Graphics Composite



NVIDIA P6000 VS PREVIOUS GENERATIONS

SPECapc for SOLIDWORKS 2015
Graphics Composite



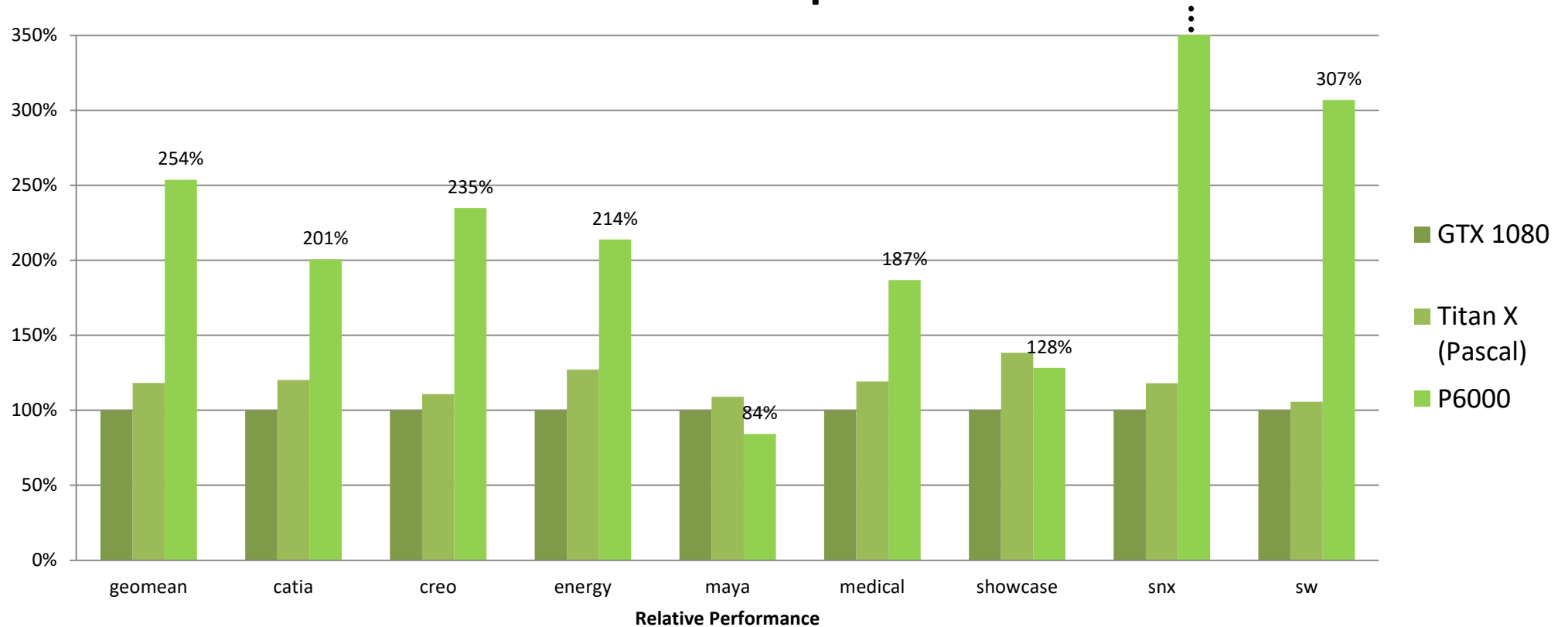
APPENDIX

- CONSUMER CARD
COMPARISON CHARTS

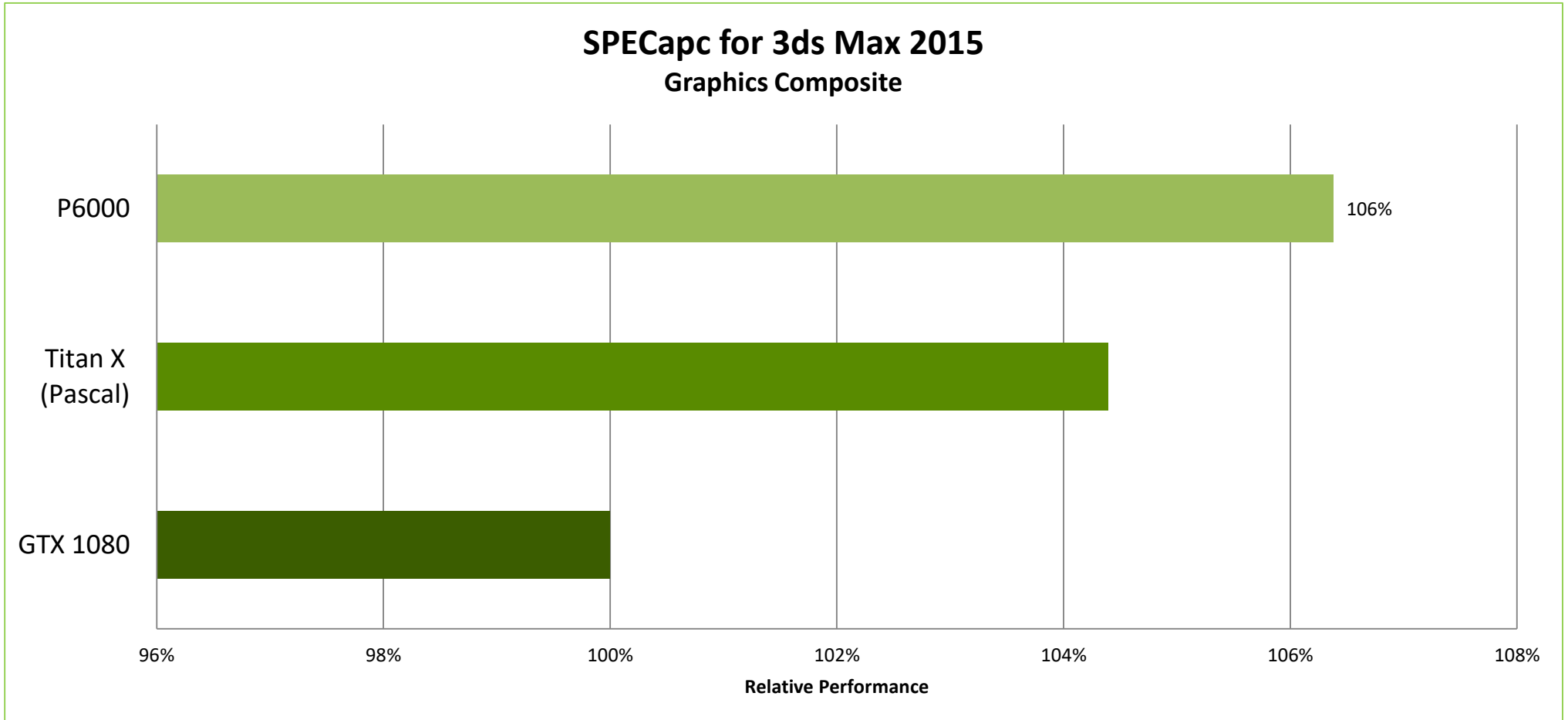
NVIDIA P6000 VS GEFORCE

P6000 ~ 2X faster than TitanX*

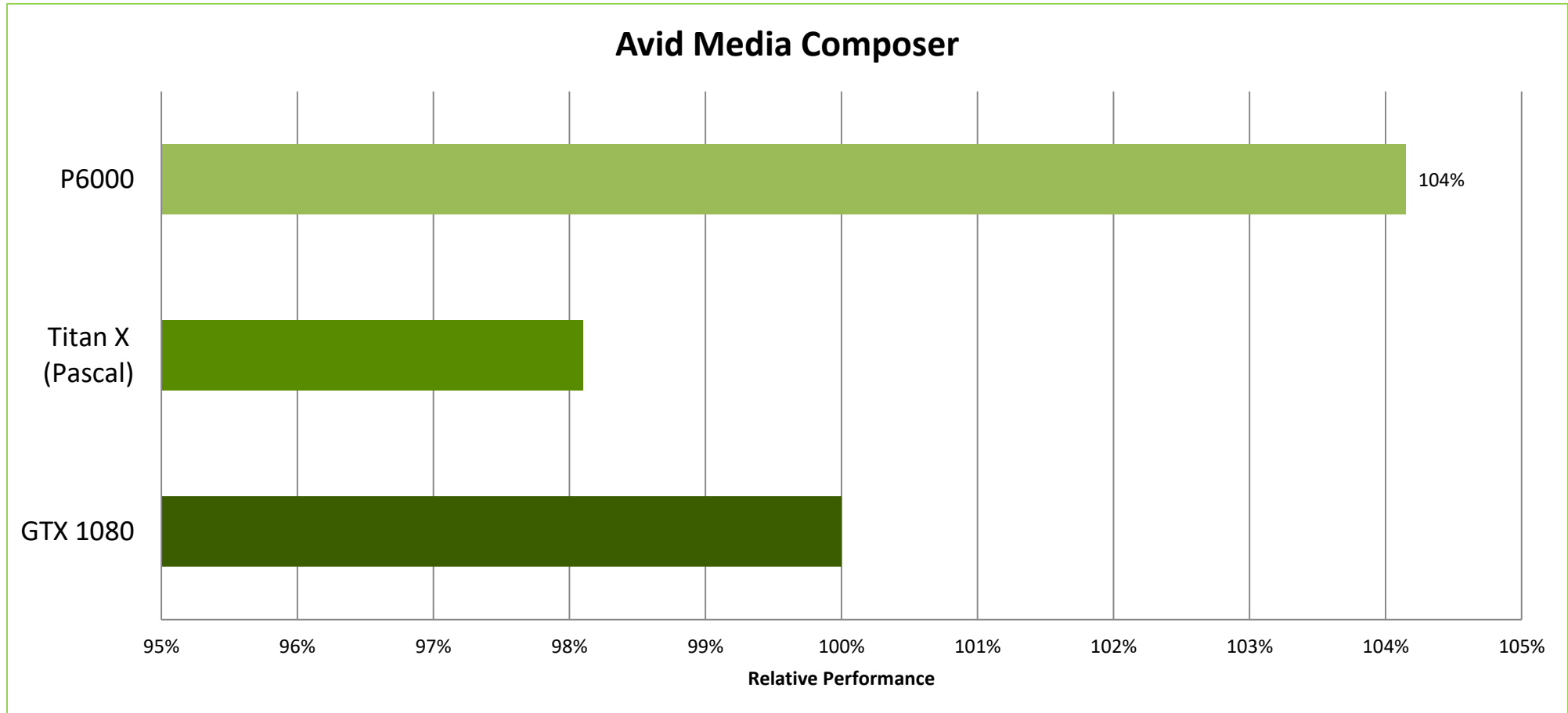
SPECviewperf 12



NVIDIA P6000 VS GEFORCE

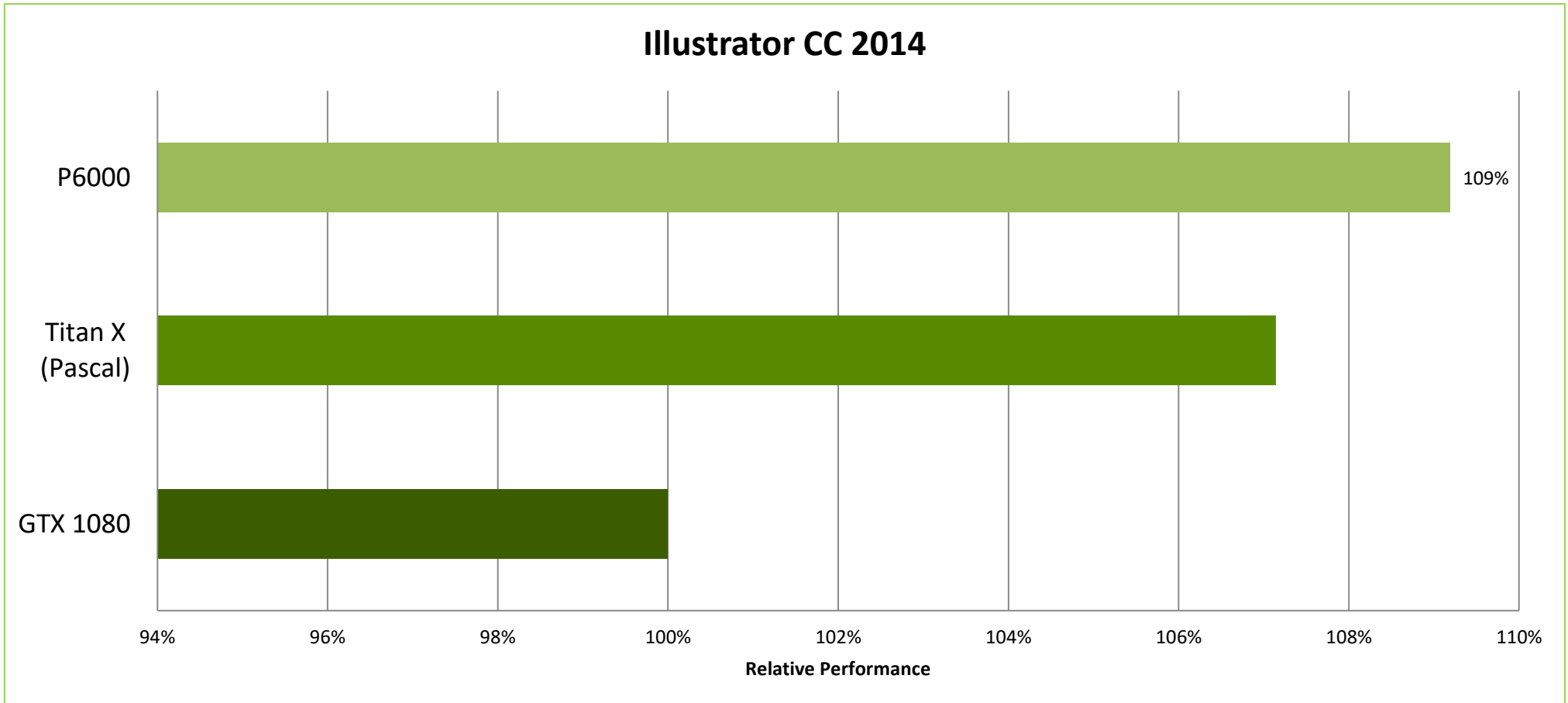


NVIDIA P6000 VS GEFORCE

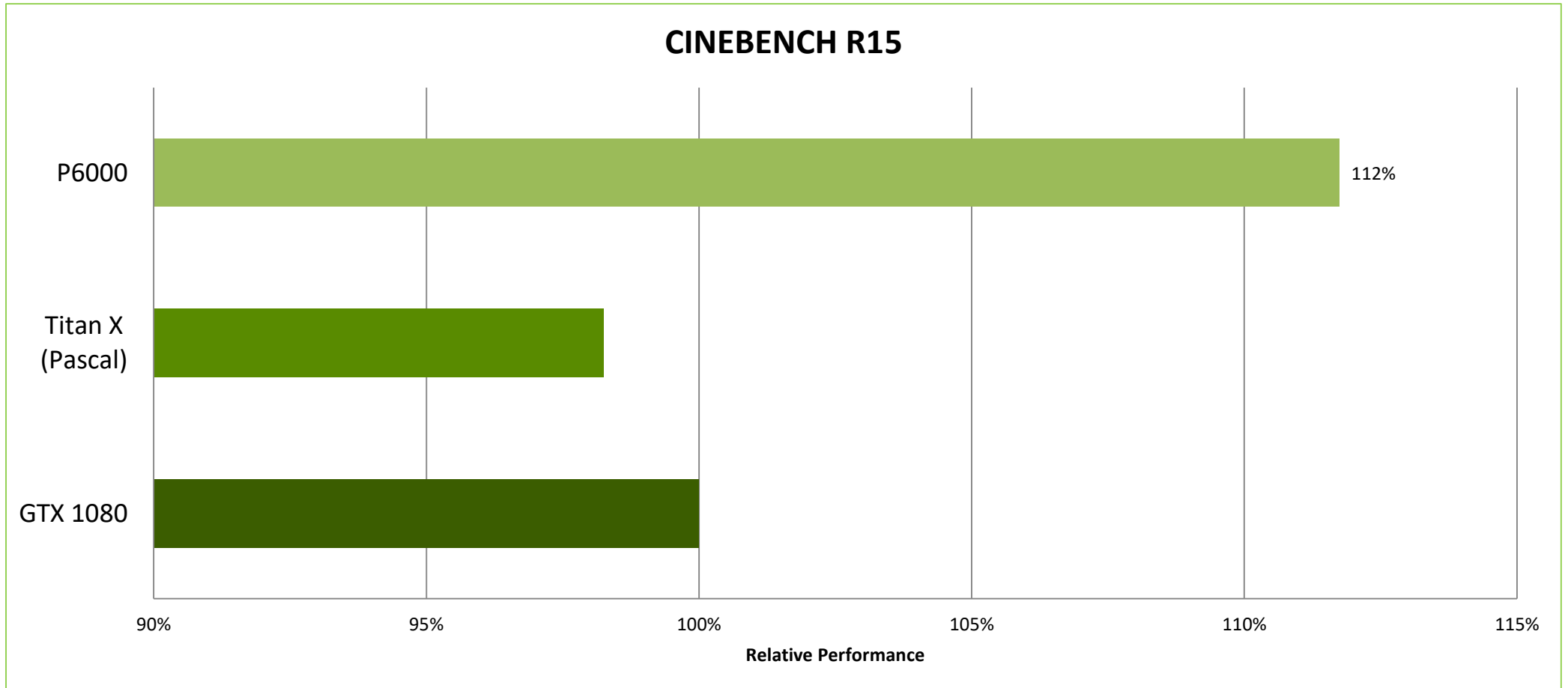


Tests run on an Intel Xeon E5 2697 V3 CPU 2.6GHz (3.6GHz turbo), 32GB RAM, Win 7 64bit SP1, NVIDIA driver 372.54.
Performance testing completed with internal Avid Media Composer benchmark

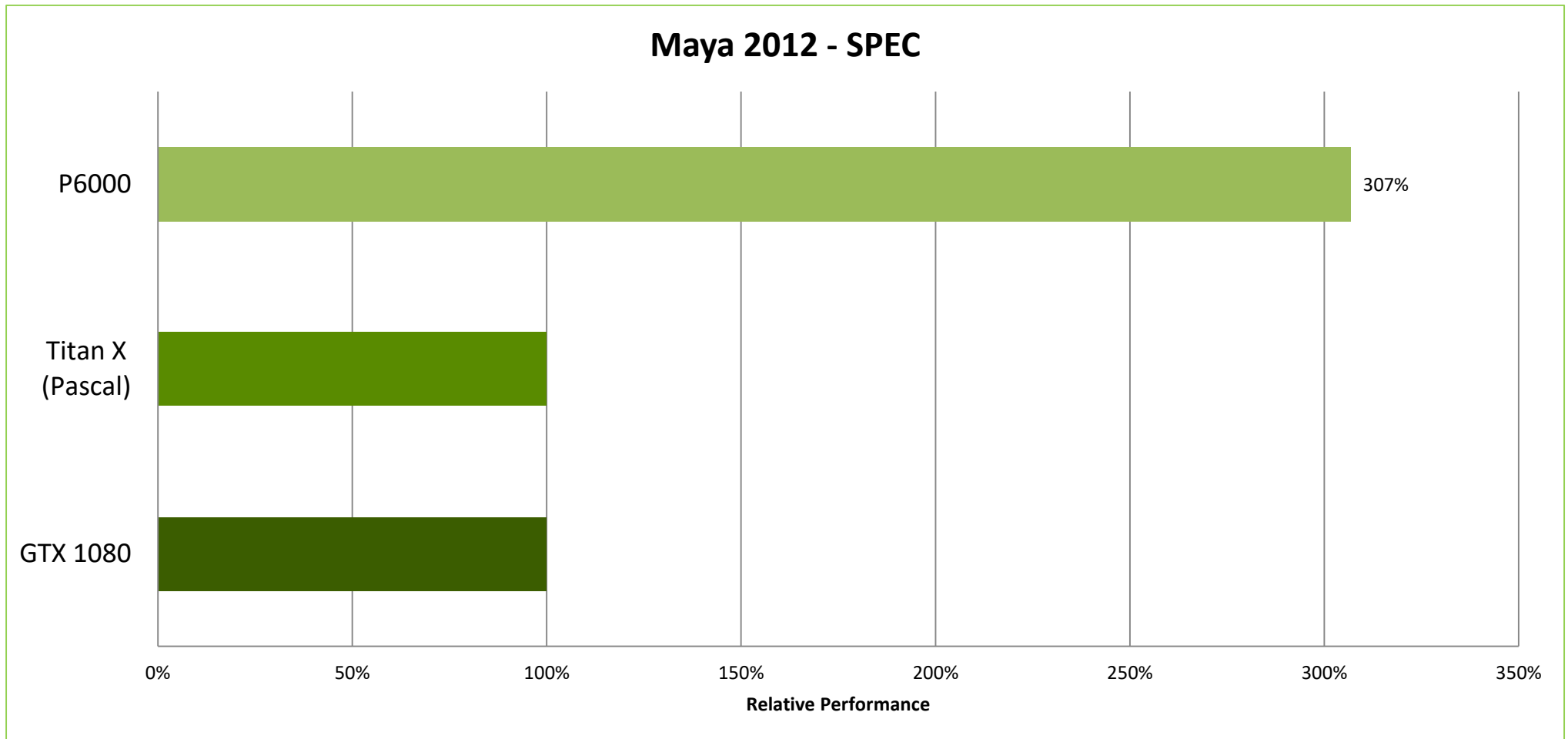
NVIDIA P6000 VS GEFORCE



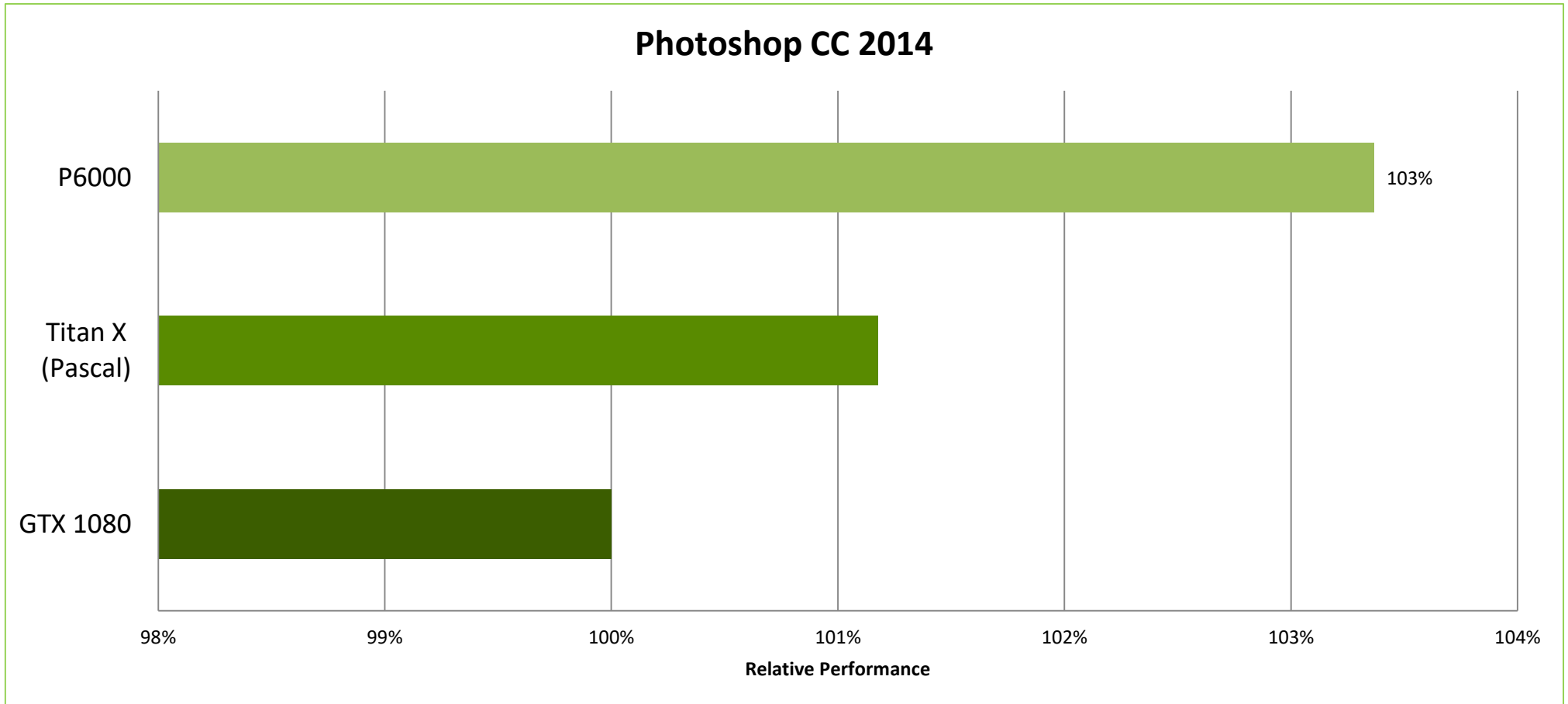
NVIDIA P6000 VS GEFORCE



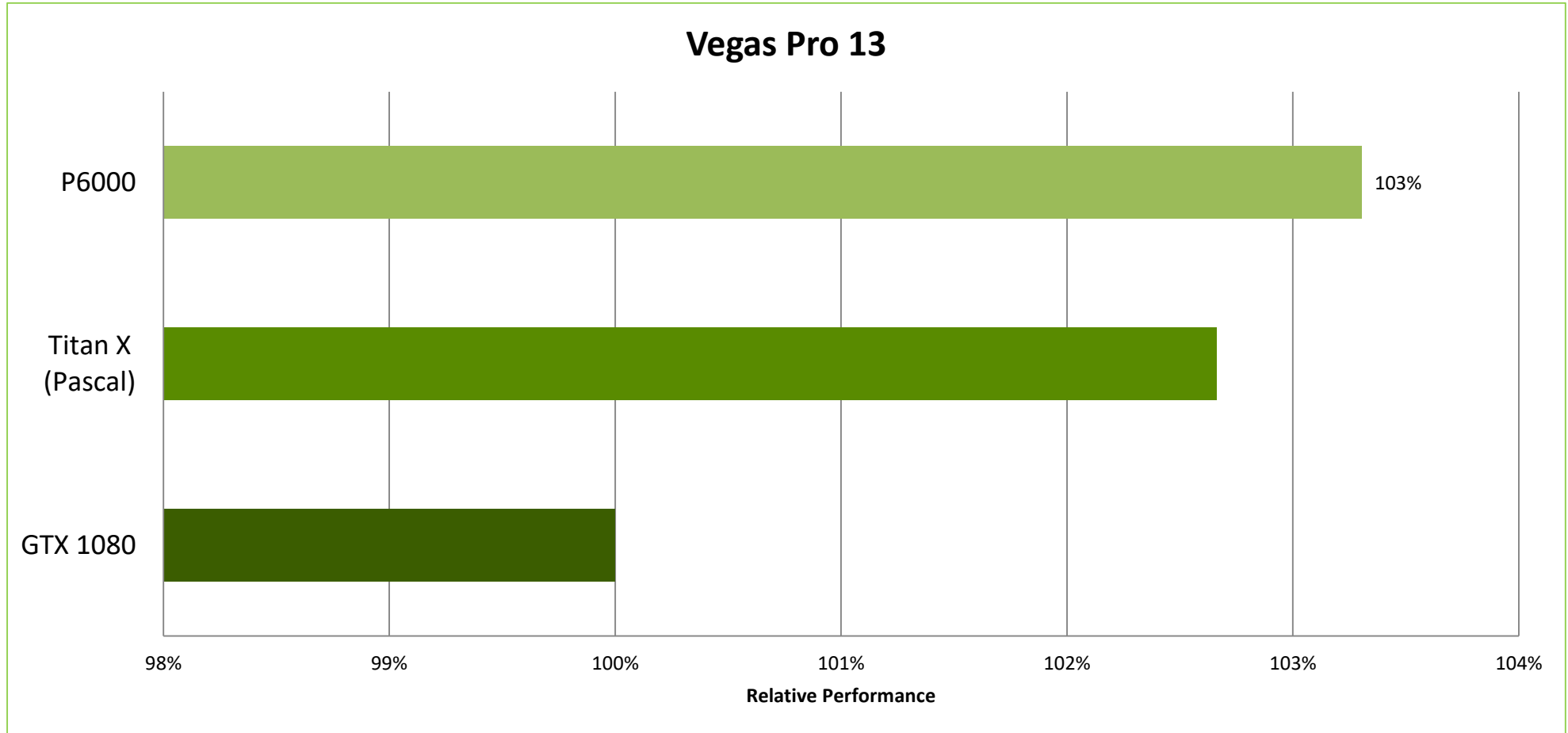
NVIDIA P6000 VS GEFORCE



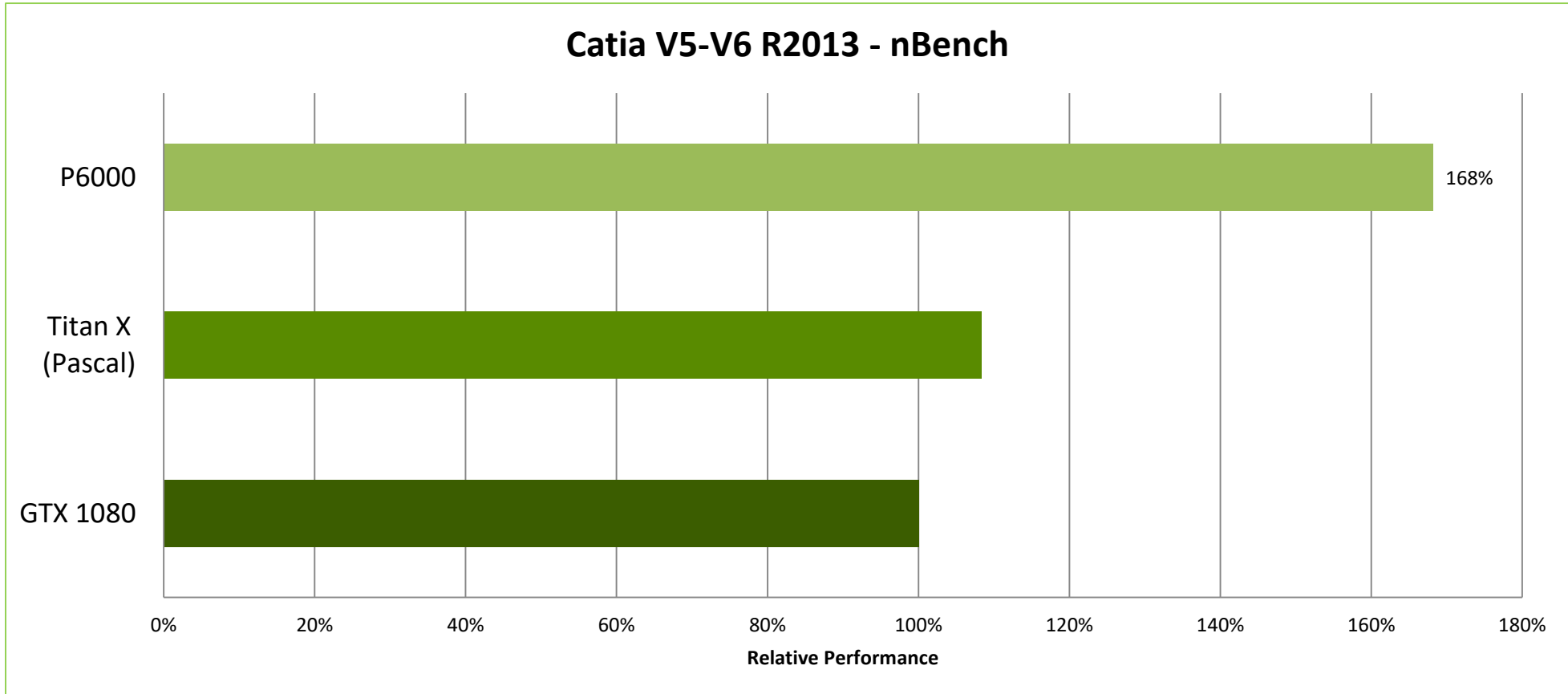
NVIDIA P6000 VS GEFORCE



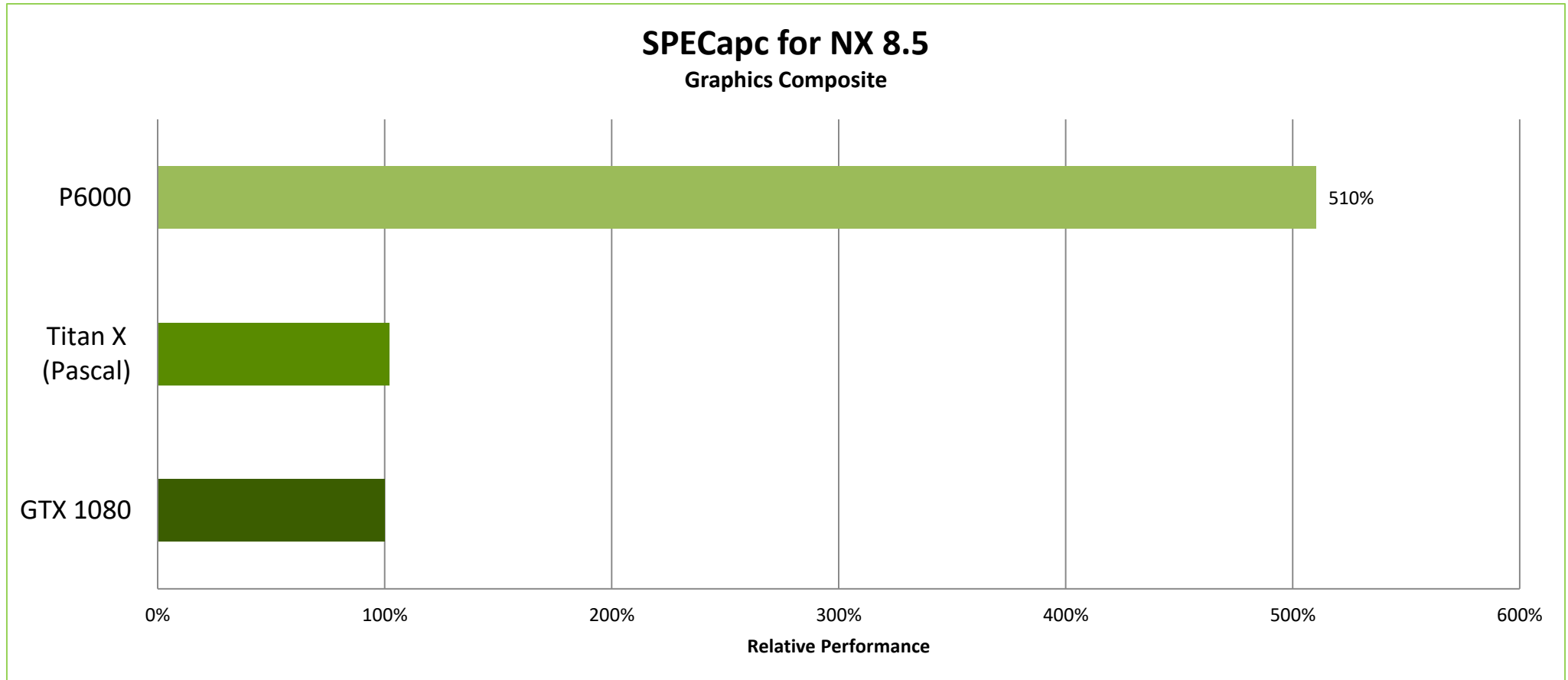
NVIDIA P6000 VS GEFORCE



NVIDIA P6000 VS GEFORCE



NVIDIA P6000 VS GEFORCE



NVIDIA P6000 VS PREVIOUS GENERATIONS

