

QUADRO P2000



NVIDIA QUADRO 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 

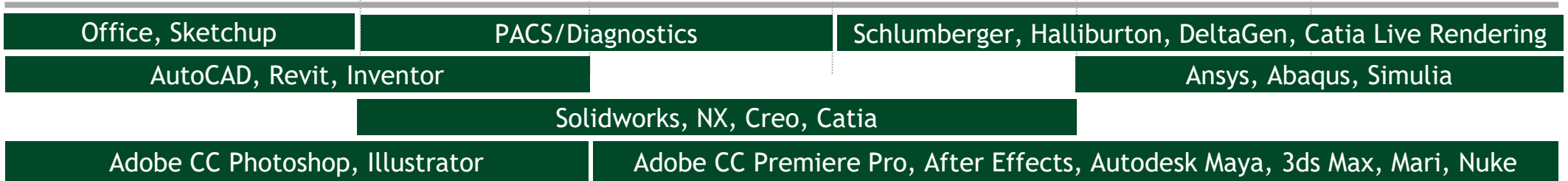
P4000 8GB 

P2000 5GB

P1000 4GB LP

P600 2GB LP

P400 2GB LP



QUADRO P2000

- SPECIFICATIONS
- PERFORMANCE

QUADRO P2000



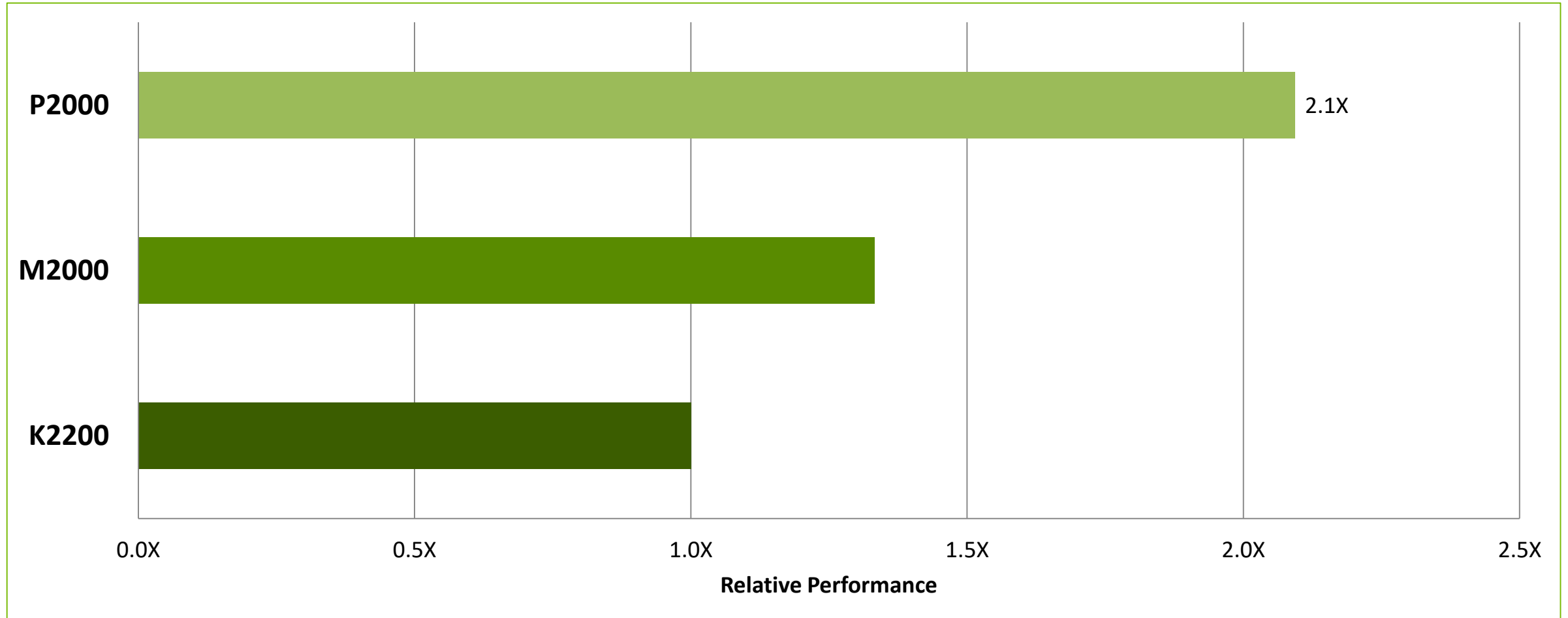
| | |
|--------------------|---|
| GPU ARCHITECTURE | Pascal |
| CUDA CORES | 1024 |
| FP32 PERFORMANCE | Up to 3.0 TFLOPs |
| MEMORY CAPACITY | 5 GB GDDR5 |
| DISPLAY CONNECTORS | 4x DP 1.4 |
| DISPLAY SUPPORT | 4 x 4096X2160@120HZ 4 x 5120x2880@60HZ |

QUADRO P2000 VS M2000

| | M2000 | P2000 | Benefits |
|--------------------|----------------|----------------|---|
| GPU Architecture | Maxwell | Pascal | NVIDIA's latest GPU architecture |
| # CUDA Cores | 768 | 1024 | Faster graphics & rendering performance |
| Memory Size | 4 GB GDDR5 | 5 GB GDDR5 | Real-Time Interactivity with larger, more complex assemblies, |
| Memory BW | Up to 106 GB/s | Up to 140 GB/s | Move data to and from GPU faster |
| Display Connectors | 4x DP 1.2 | 4x DP 1.4 | Enabling 4 5K Displays |
| Board Power | 75 W | 75 W | Powerful and Efficient GPU |

NVIDIA P2000 VS PREVIOUS GENERATION

SPECviewperf 12 Performance: P2000 > 2X faster than K2200*

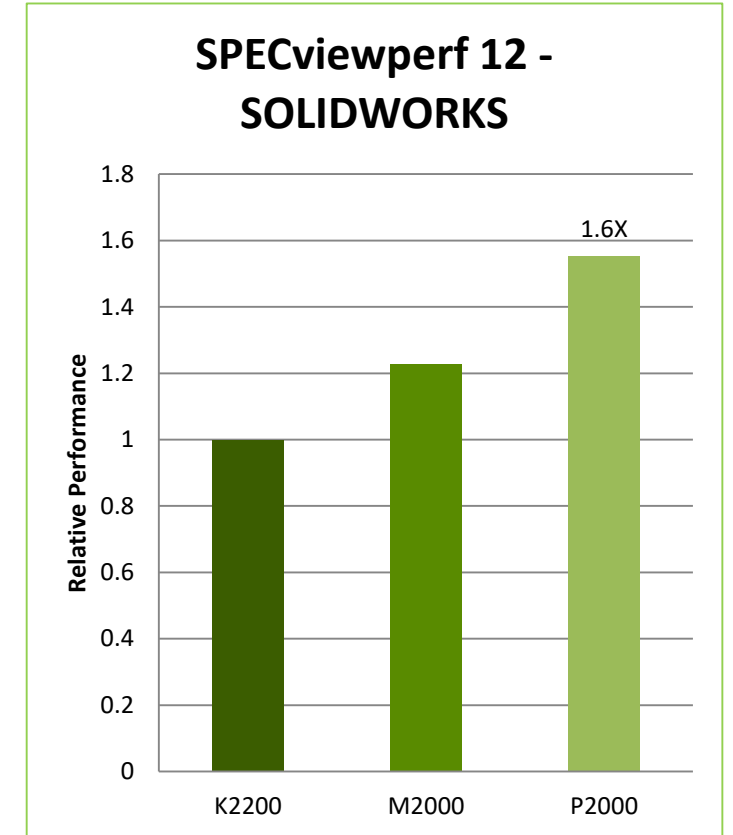
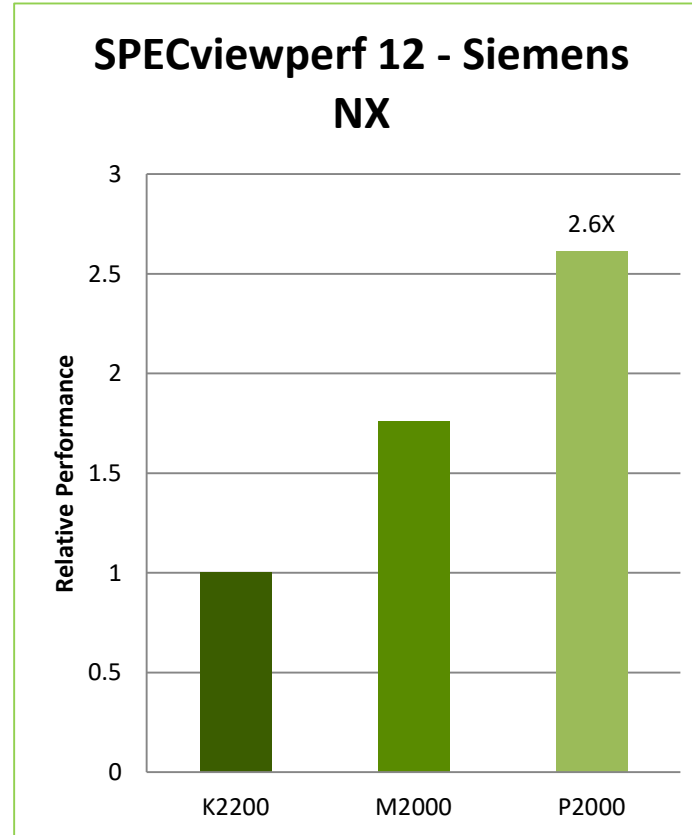
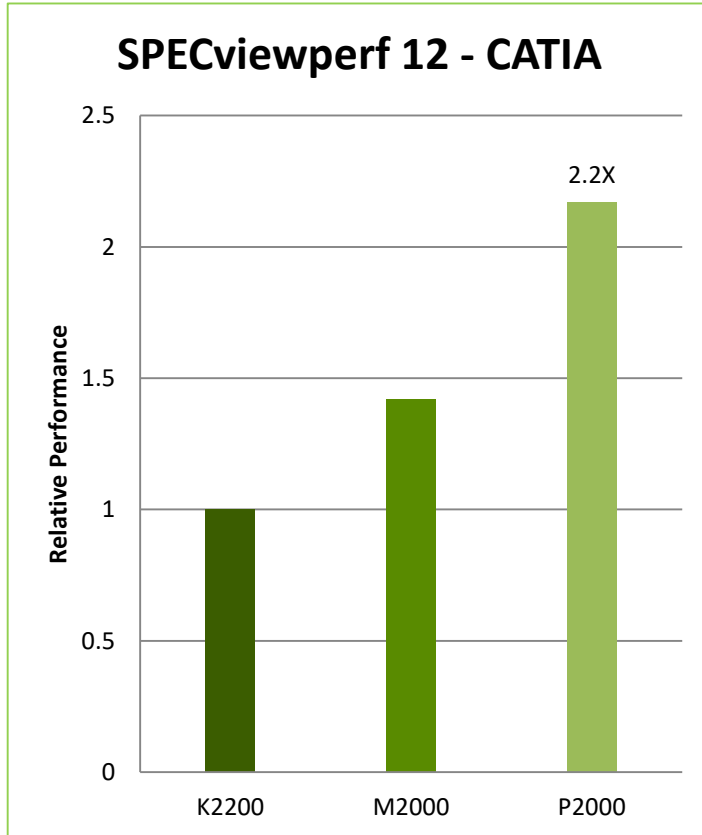


*based on SPECviewperf 12 Geomean of all test scores

Tests run on an Intel Xeon E5 2697 V3 CPU 2.6GHz (3.6GHz turbo), 32GB RAM, Win 10 64bit Anniversary Update.
Performance testing completed with publically available SPECviewperf® 12 benchmark information

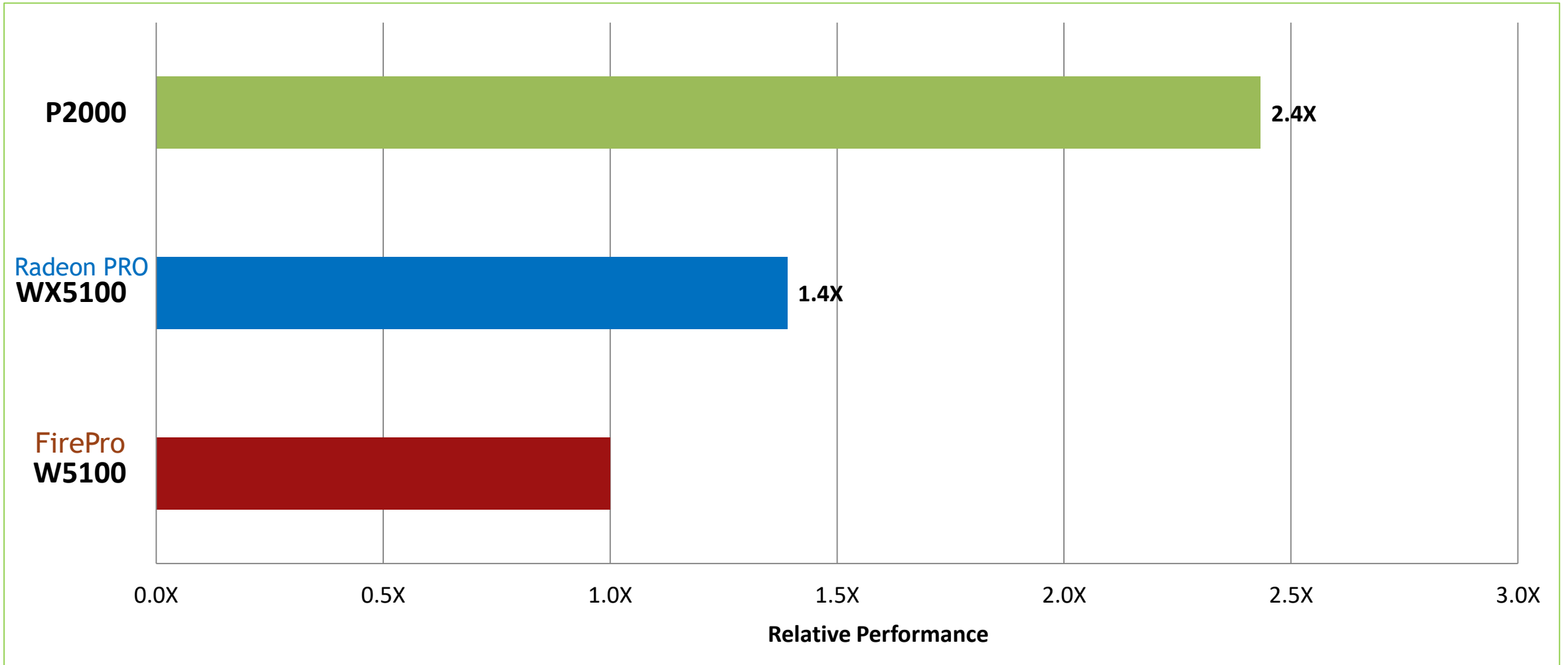
NVIDIA P2000 VS PREVIOUS GENERATION

Significant Performance Improvements to key Pro Applications



NVIDIA P2000 VS AMD WX5100

SPECviewperf Performance: > 50% Faster than Radeon Pro WX5100*



*based on SPECviewperf 12 Geomean of all test scores

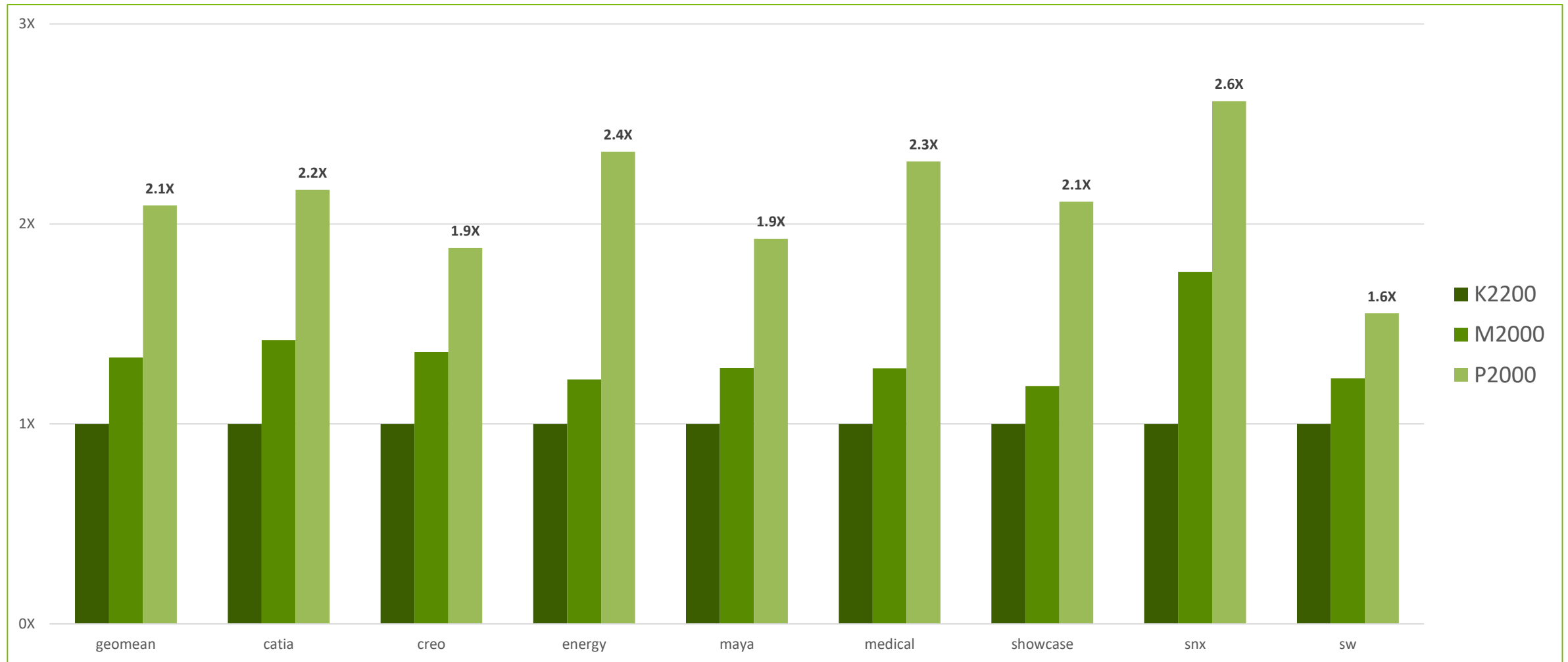
Tests run on an Intel Xeon E5 2697 V3 CPU 2.6GHz (3.6GHz turbo), 32GB RAM, Win 10 64bit Anniversary Update. AMD driver 16.Q4, NVIDIA driver 375.86 Performance testing completed with publically available SPECviewperf® 12 benchmark information

APPENDIX

- **PREVIOUS GENERATION
CHARTS**

P2000 VS PREVIOUS GENERATION

SPECviewperf 12 Performance: P2000 ~ 2X faster than K2200*

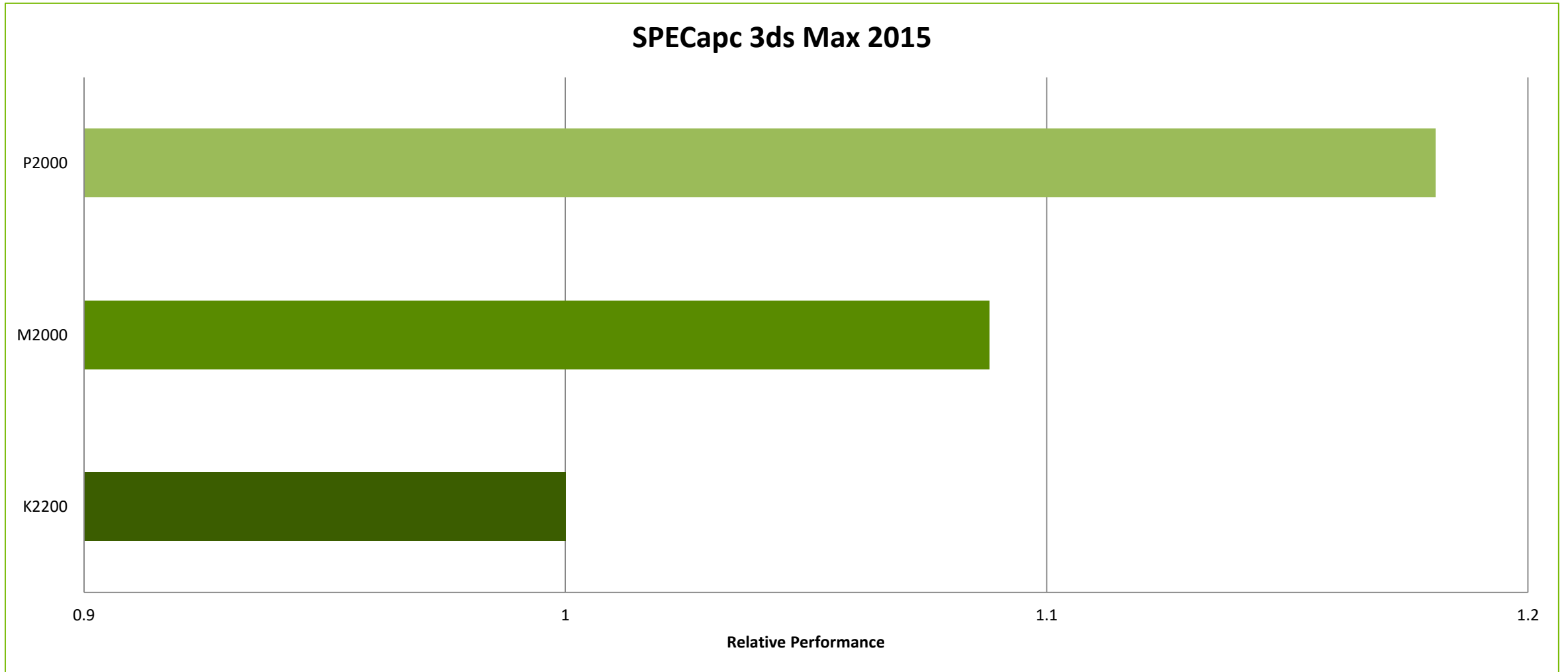


*based on SPECviewperf 12 Geomean score

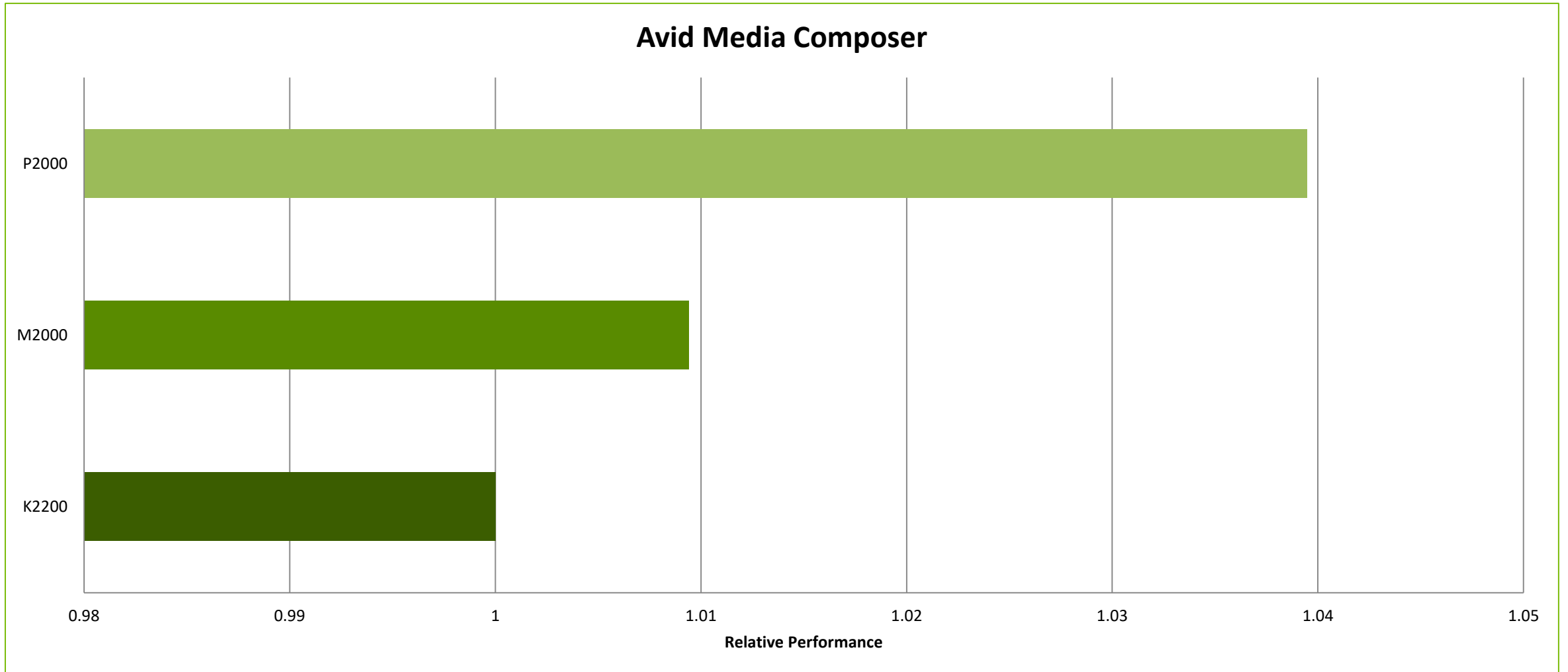
Tests run on an Intel Xeon E5 2697 V3 CPU 2.6GHz (3.6GHz turbo), 32GB RAM, Win 10 64bit Anniversary Update, NVIDIA driver 375.86. Performance testing completed with publically available SPECviewperf® 12 benchmark information

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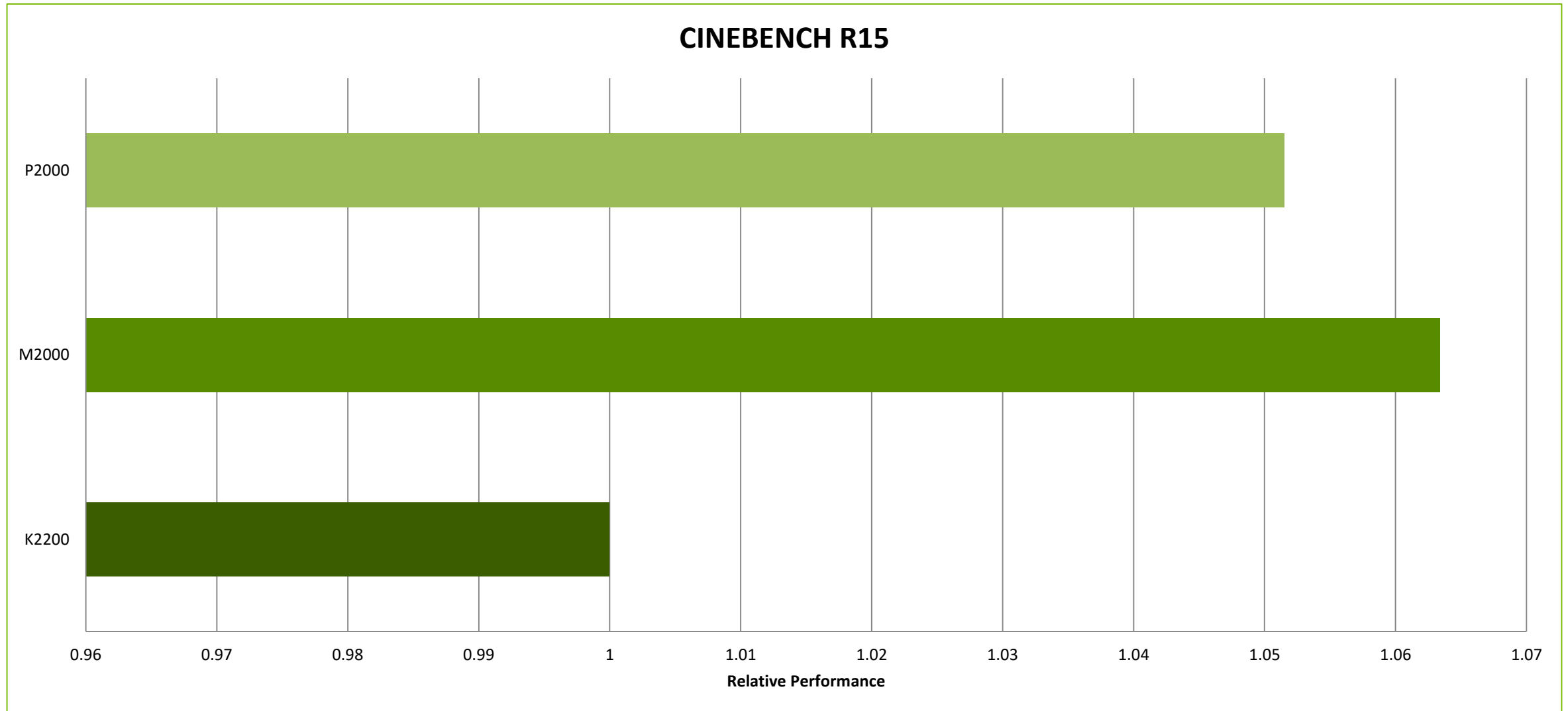
P2000 VS PREVIOUS GENERATION



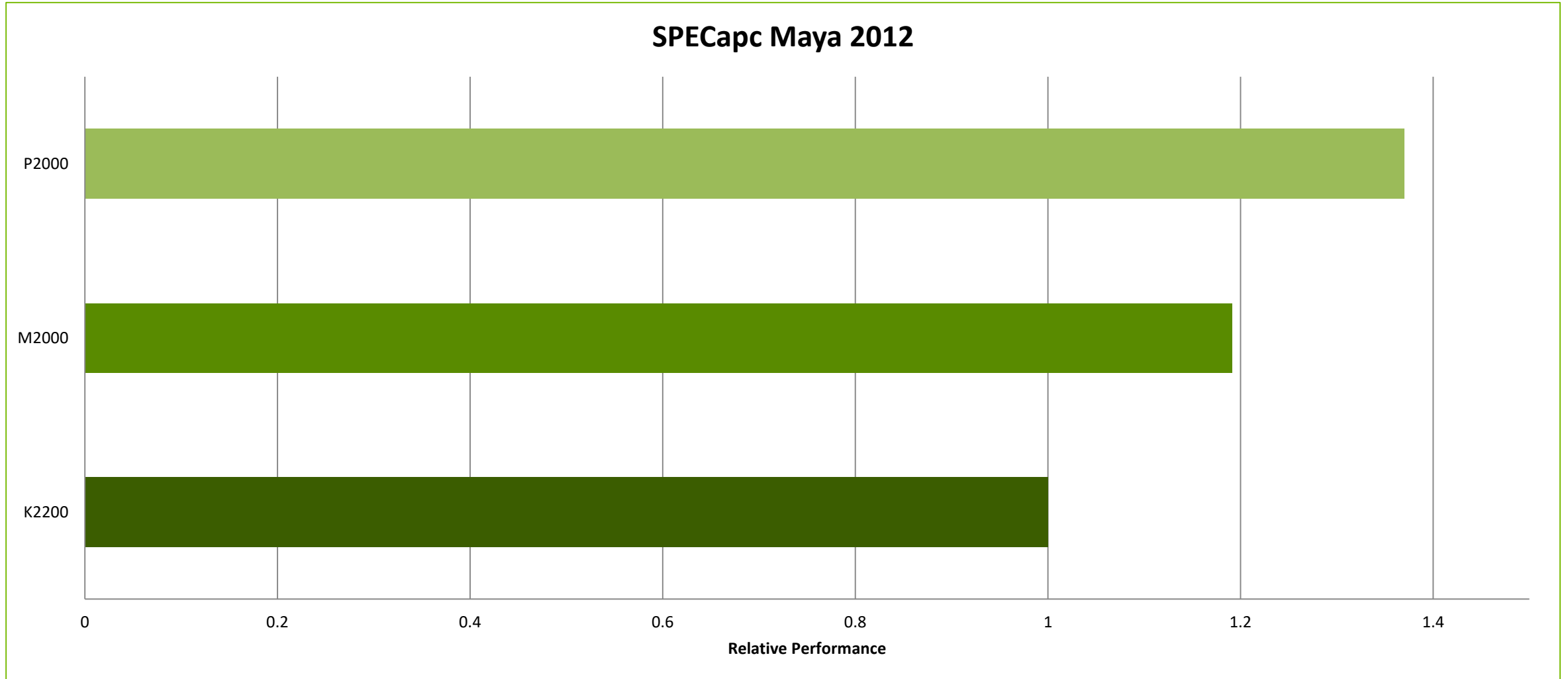
P2000 VS PREVIOUS GENERATION



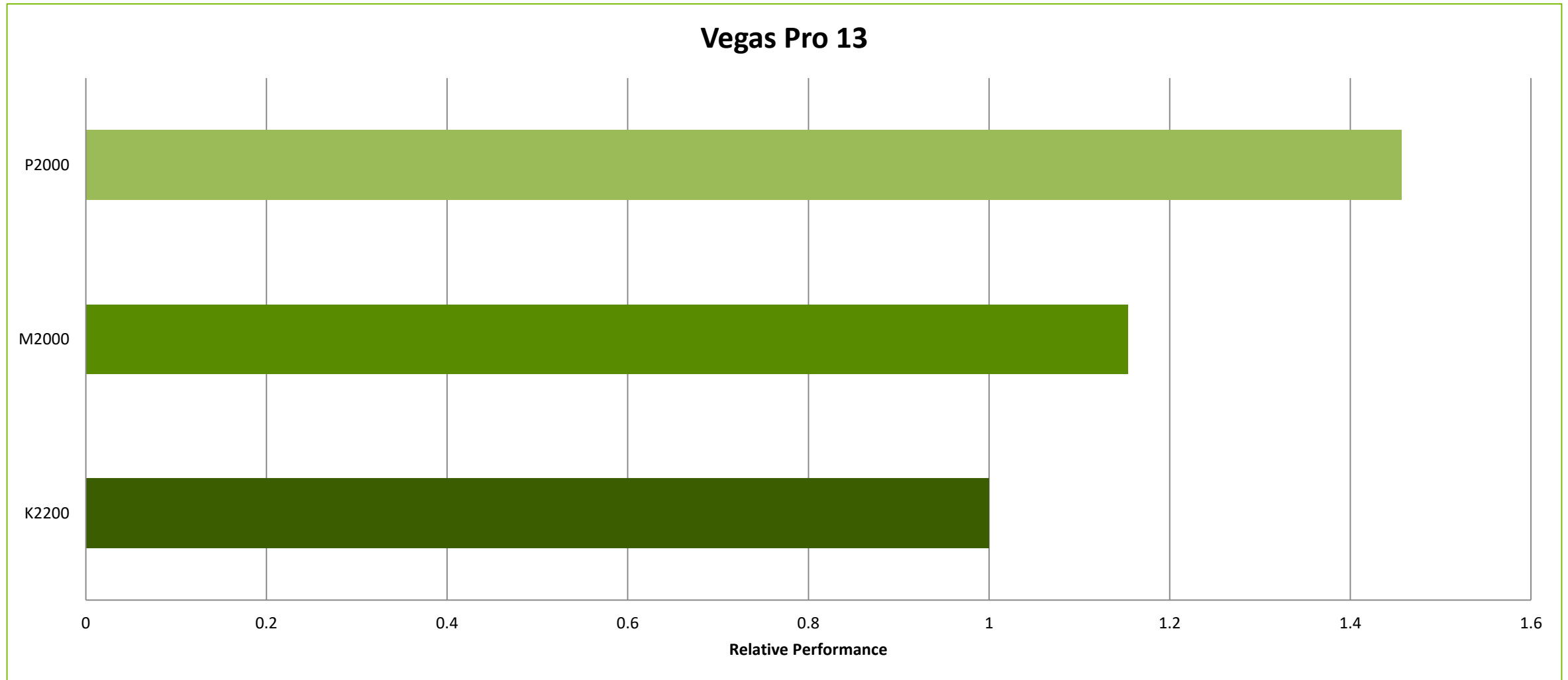
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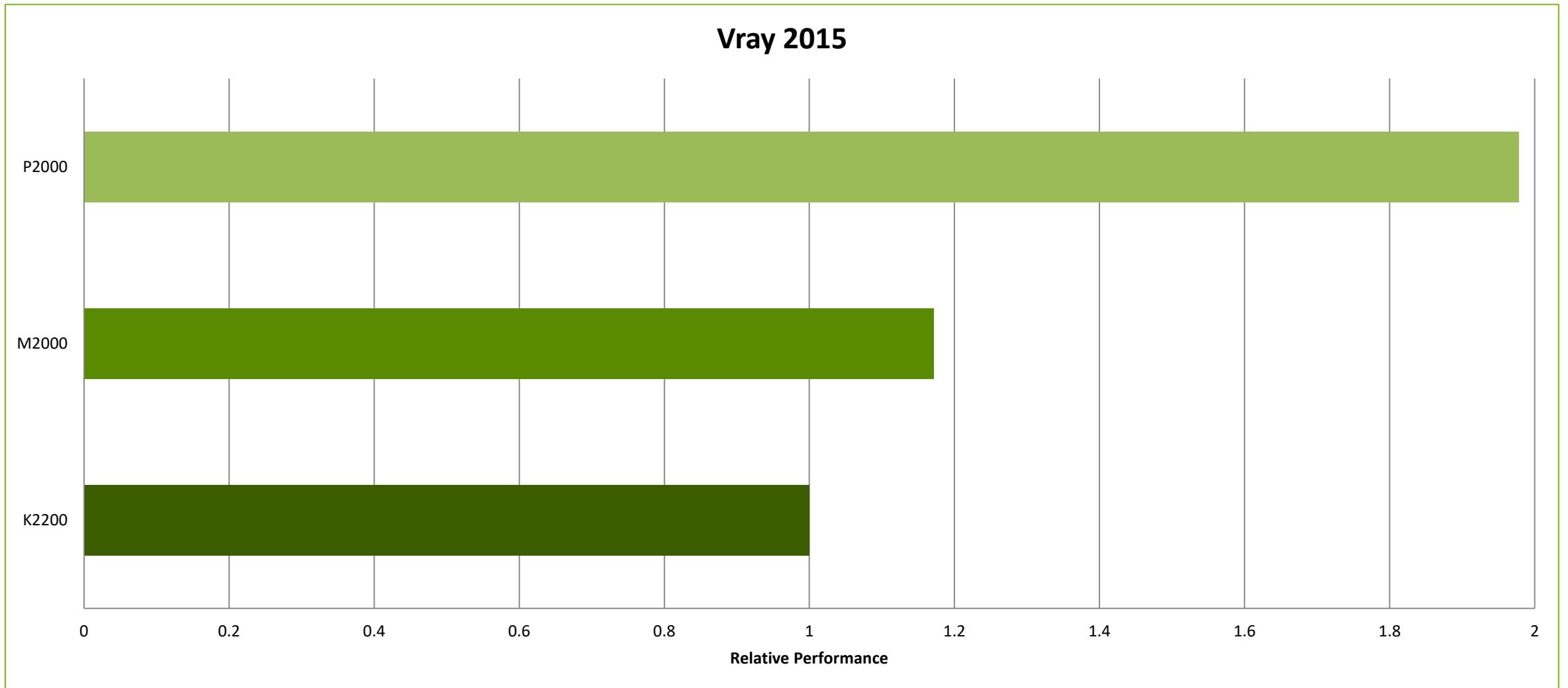
P2000 VS PREVIOUS GENERATION



P2000 VS PREVIOUS GENERATION

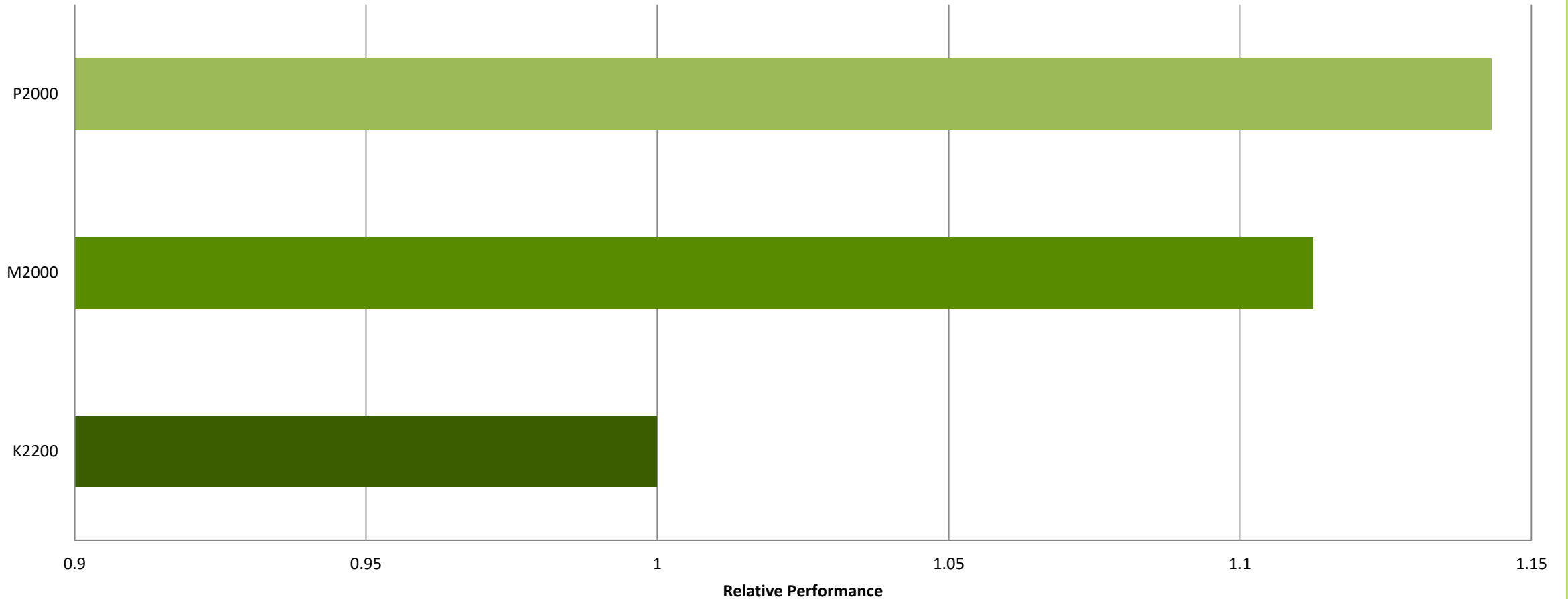


P2000 VS PREVIOUS GENERATION

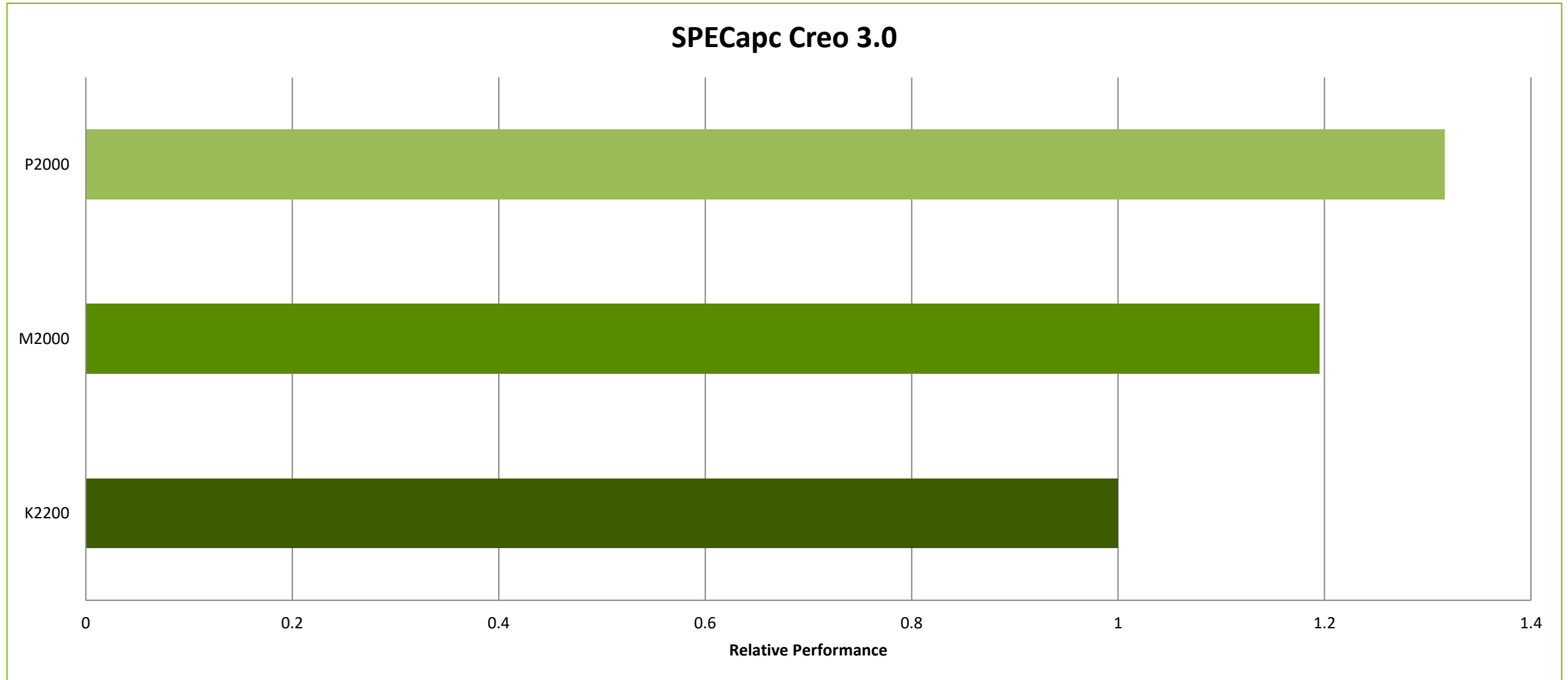


P2000 VS PREVIOUS GENERATION

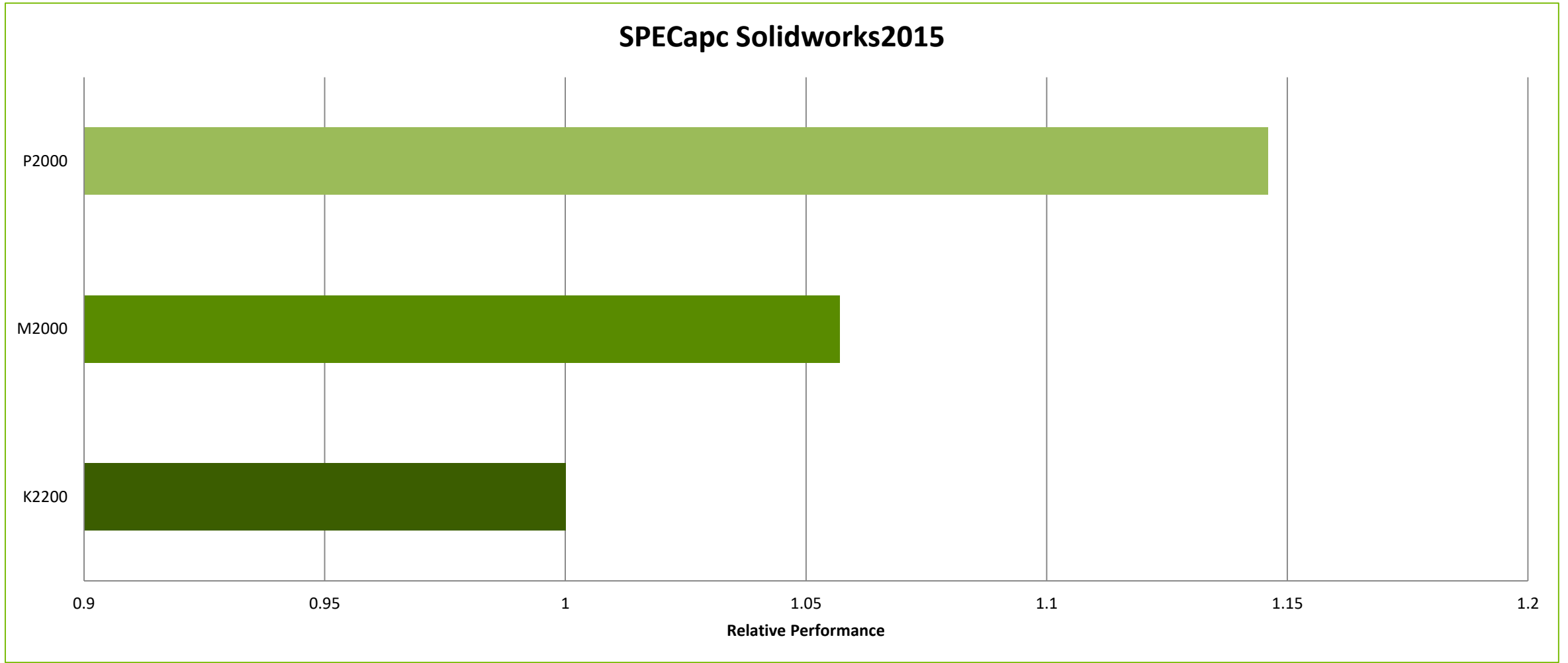
Catia V5-V6 R2013 - nBench



P2000 VS PREVIOUS GENERATION

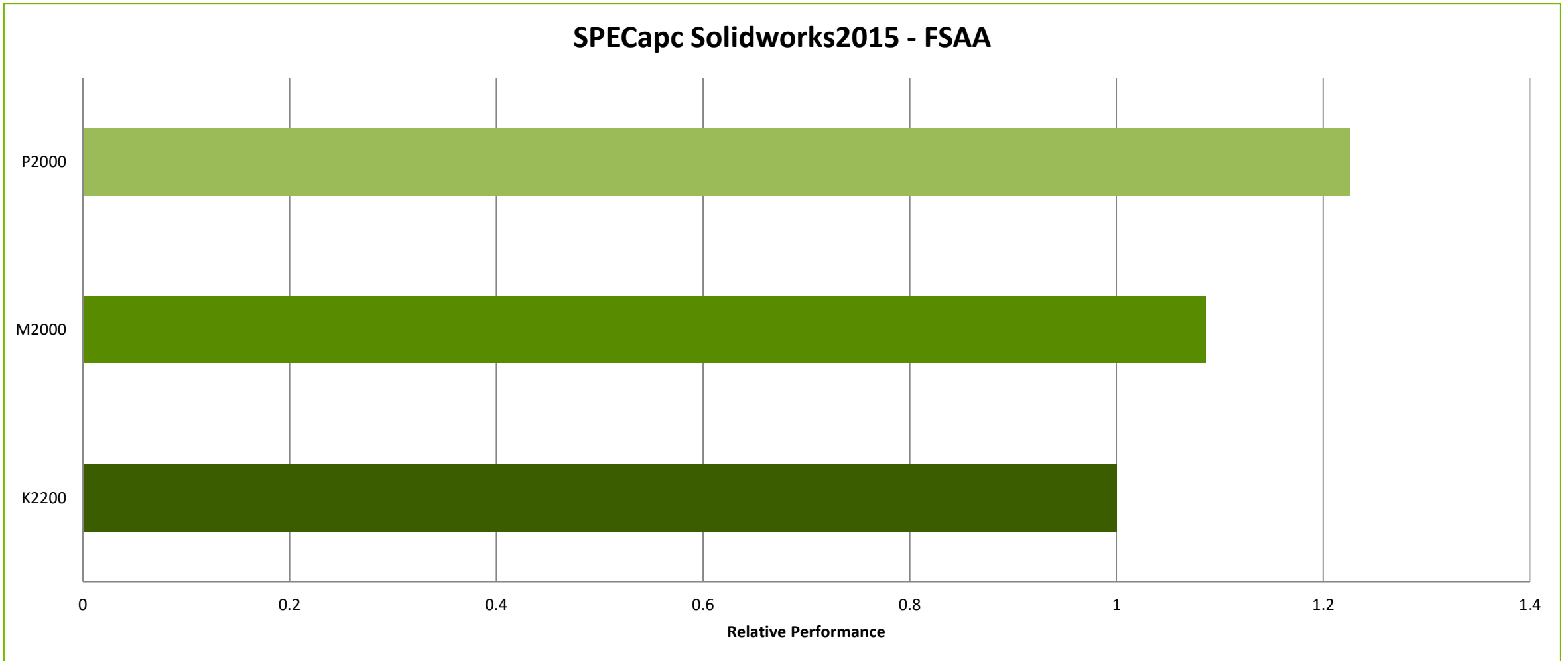


P2000 VS PREVIOUS GENERATION

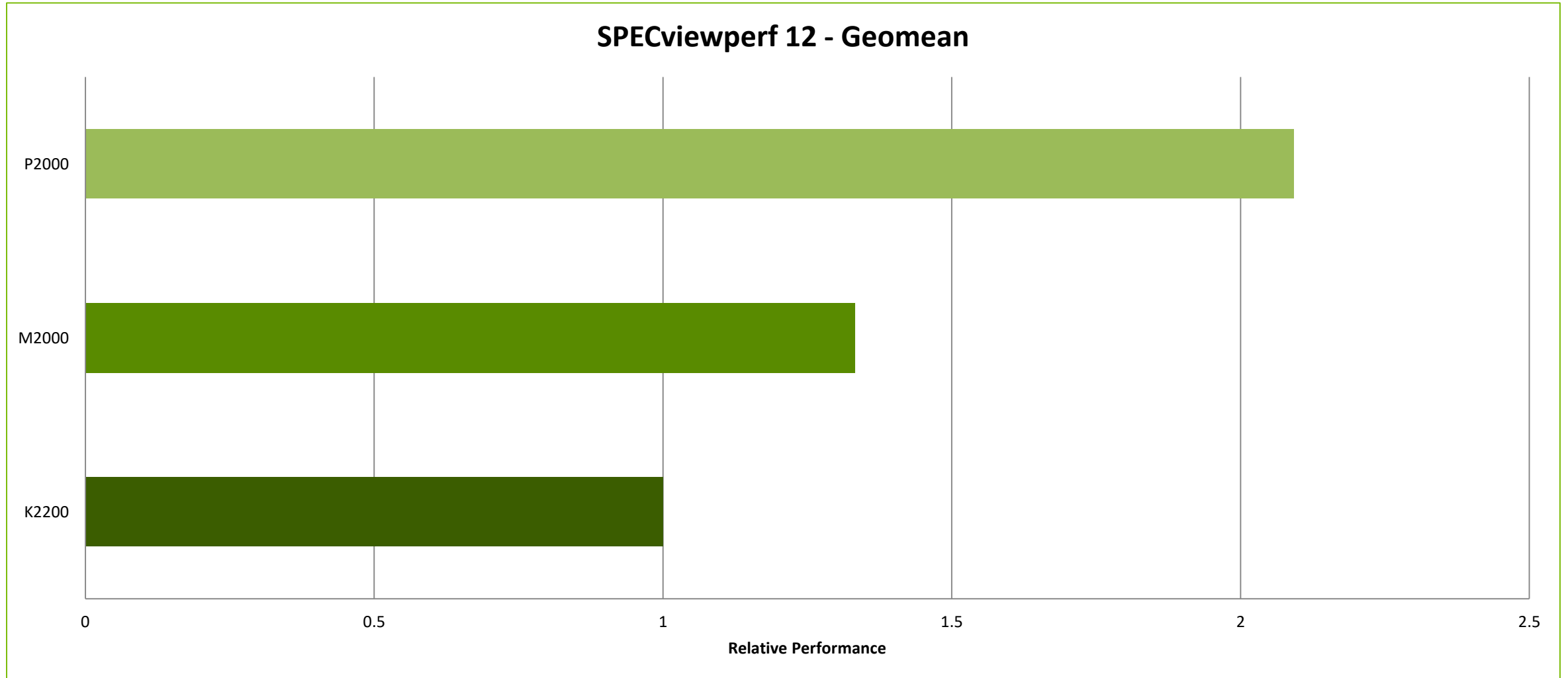


P2000 VS PREVIOUS GENERATION

SPECapc Solidworks2015 - FSA



P2000 VS PREVIOUS GENERATION

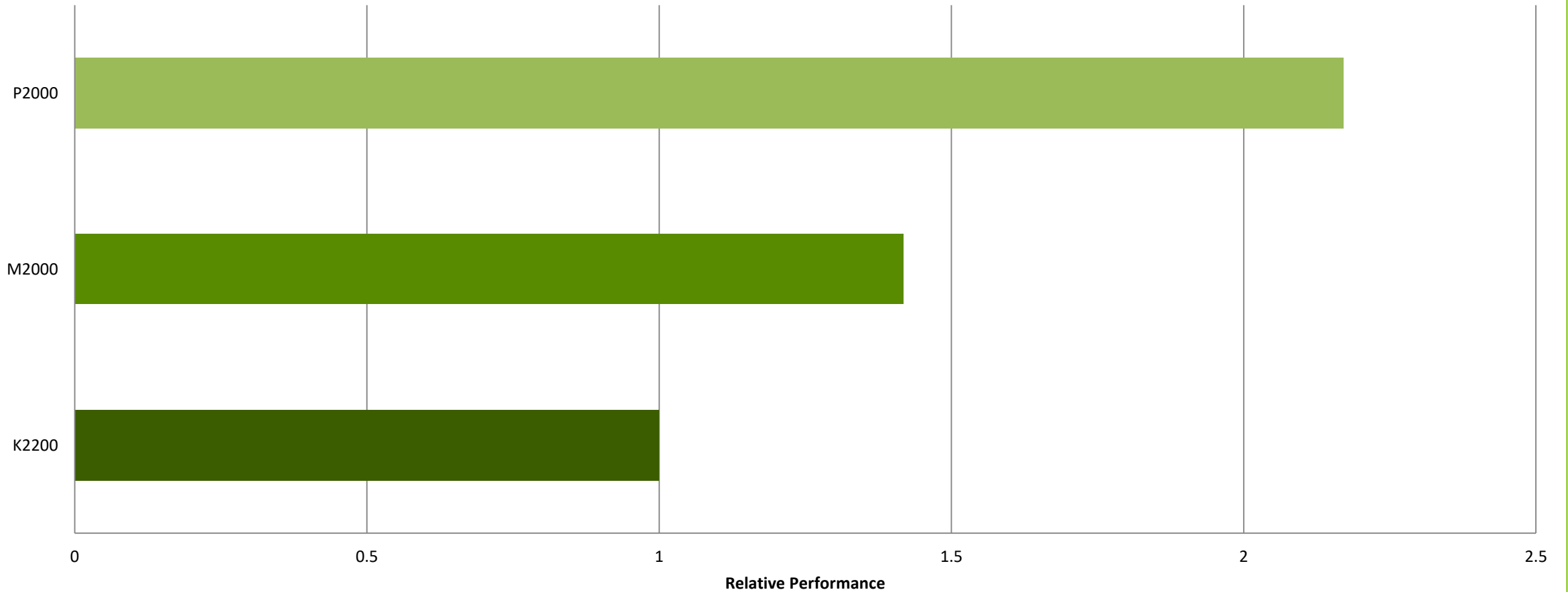


*based on SPECviewperf 12 Geomean of all test scores

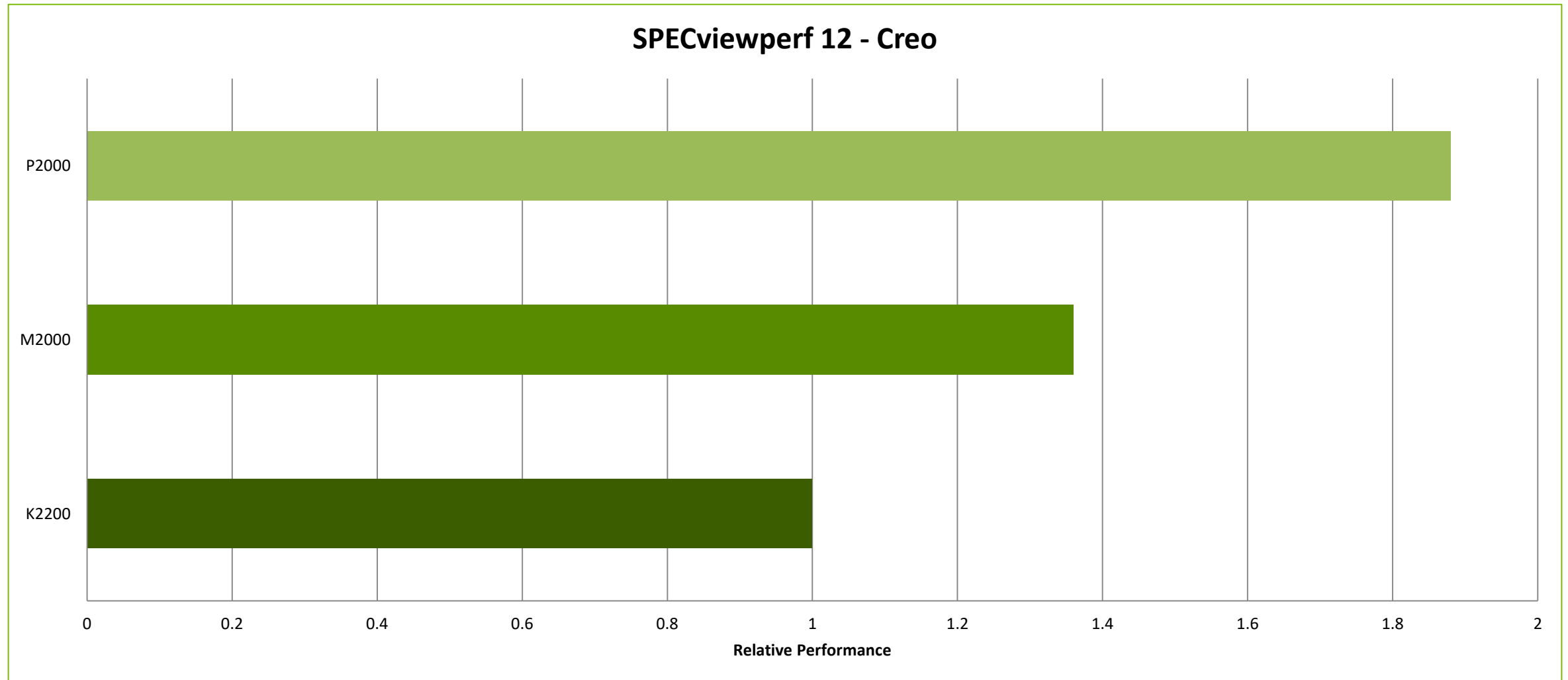
Tests run on an Intel Xeon E5 2697 V3 CPU 2.6GHz (3.6GHz turbo), 32GB RAM, Win 10 64bit Anniversary Update, NVIDIA driver 375.86. Performance testing completed with publically available SPECviewperf® 12 benchmark information

P2000 VS PREVIOUS GENERATION

SPECviewperf 12 - CATIA

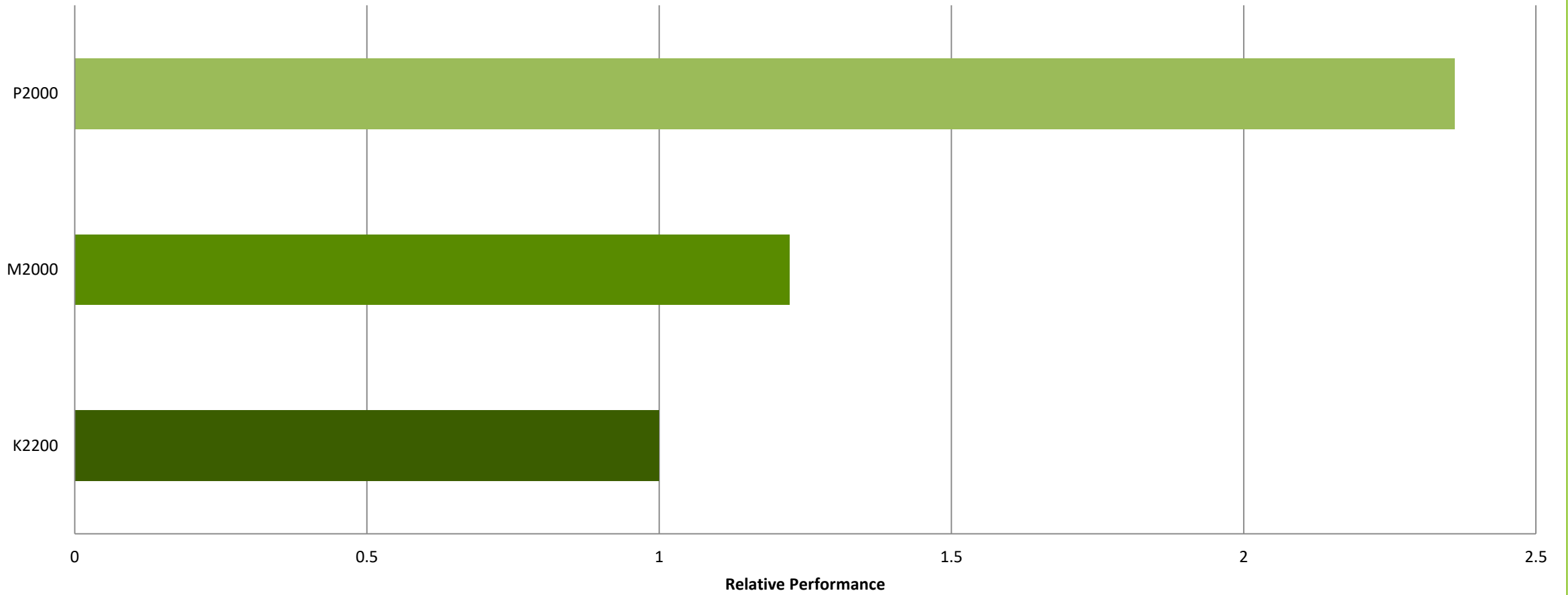


P2000 VS PREVIOUS GENERATION

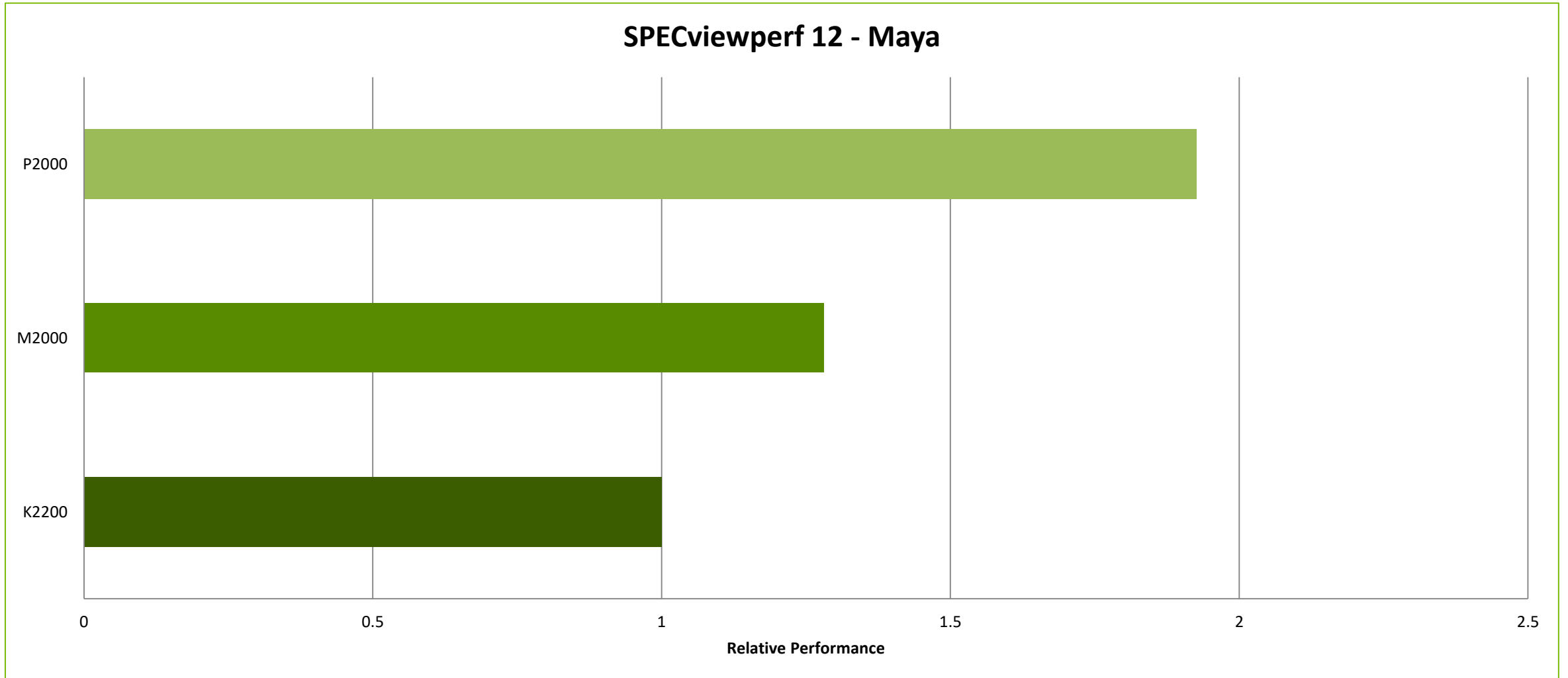


P2000 VS PREVIOUS GENERATION

SPECviewperf 12 - Energy

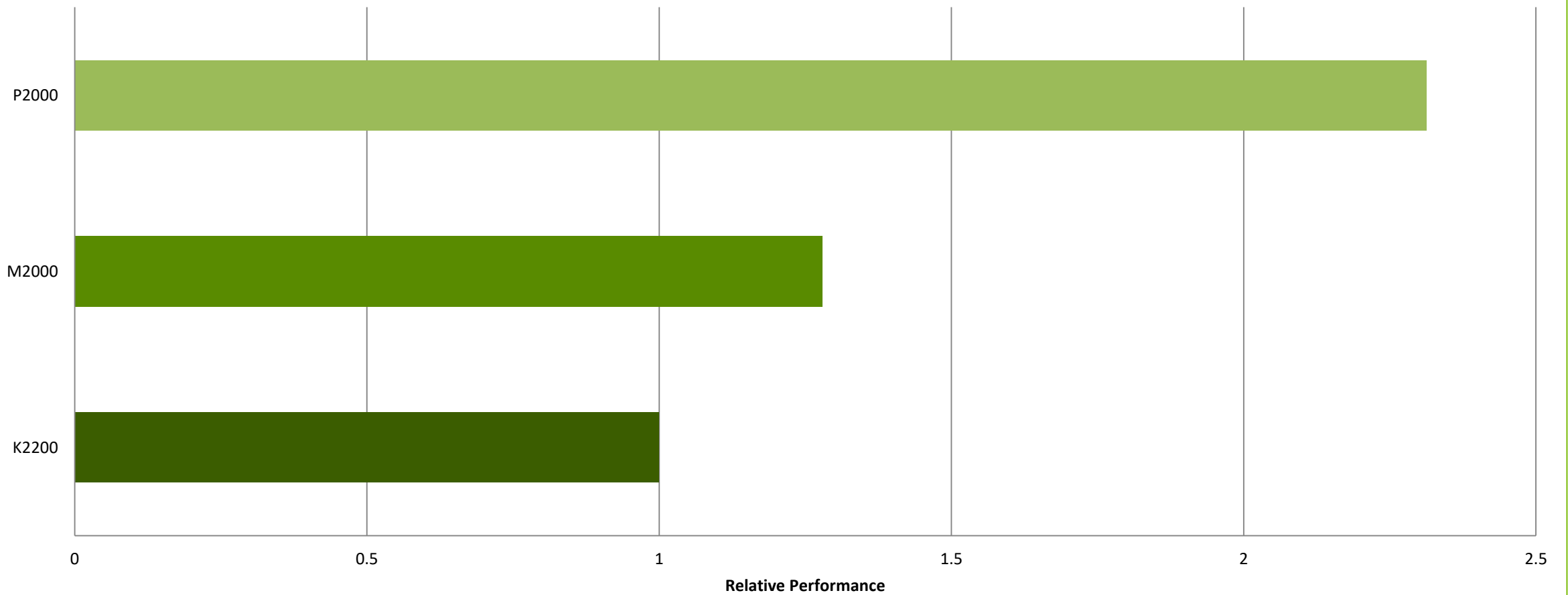


P2000 VS PREVIOUS GENERATION

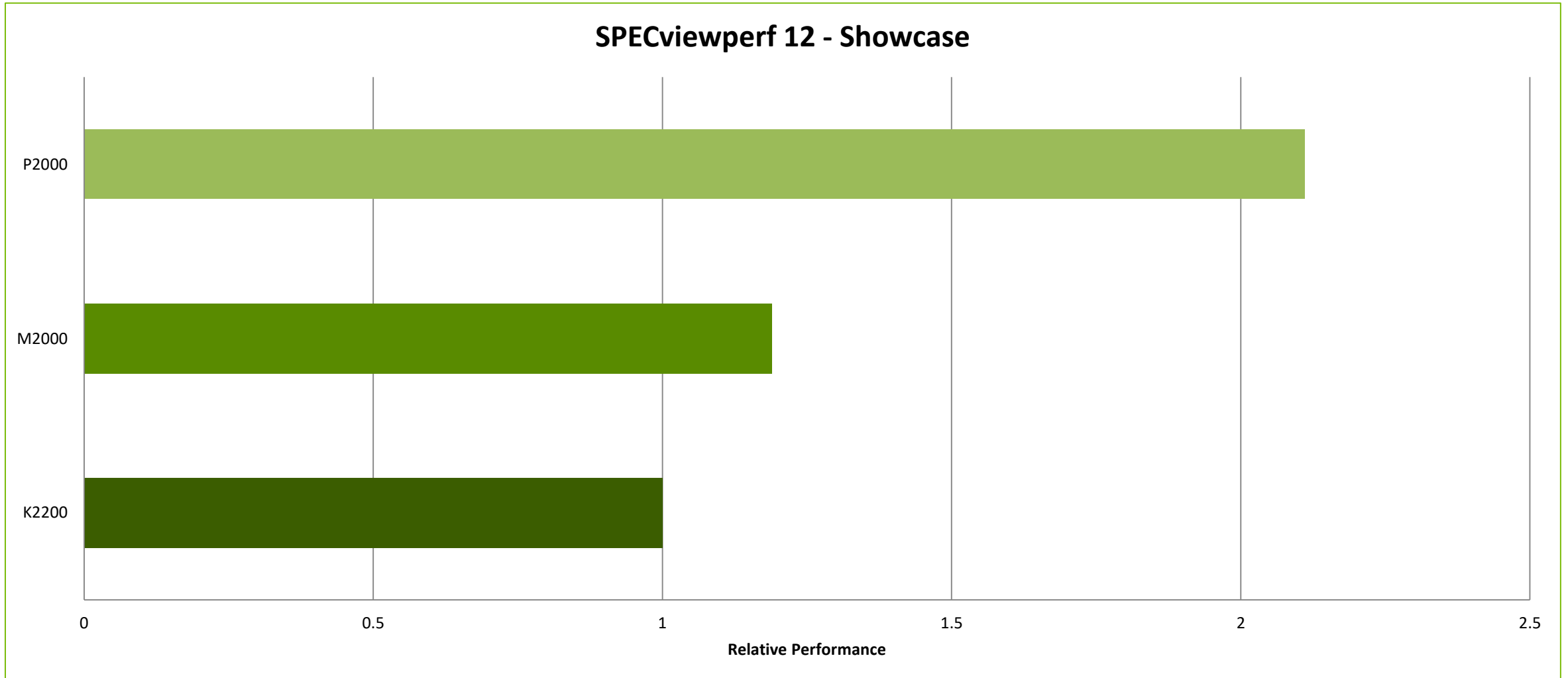


P2000 VS PREVIOUS GENERATION

SPECviewperf 12 - Medical

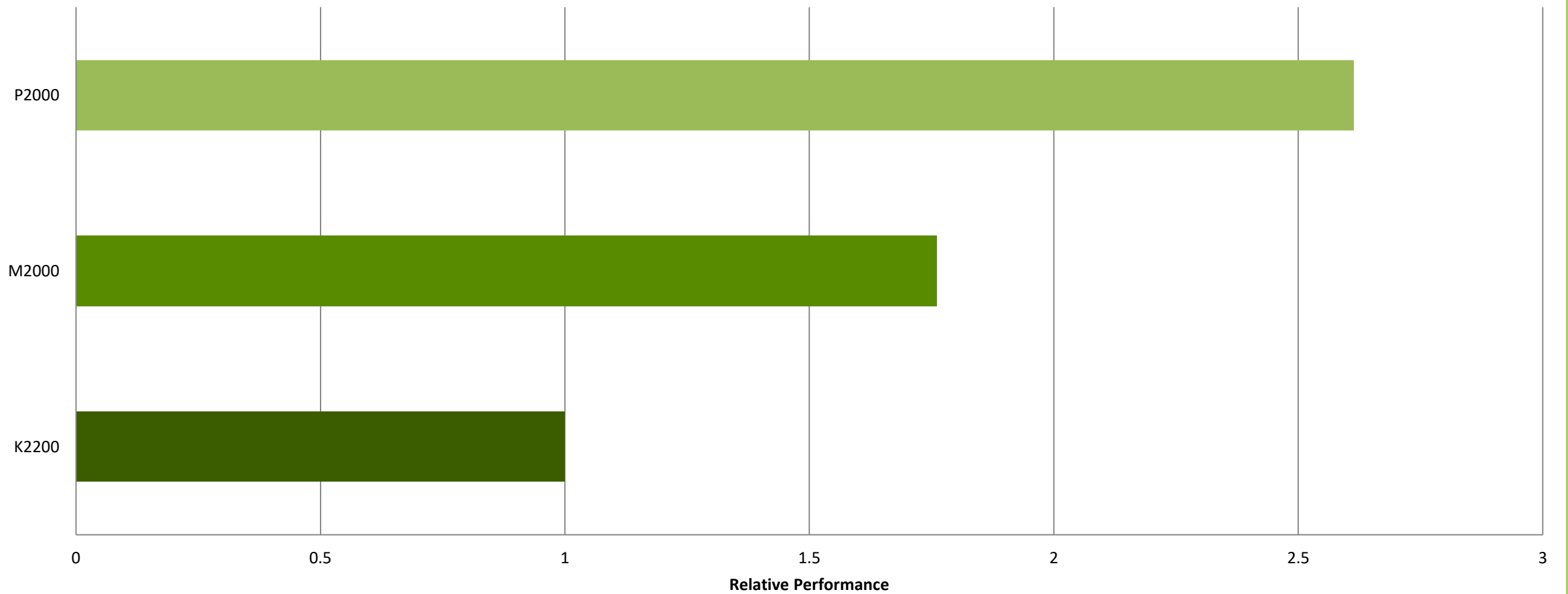


P2000 VS PREVIOUS GENERATION



P2000 VS PREVIOUS GENERATION

SPECviewperf 12 - Siemens NX



P2000 VS PREVIOUS GENERATION

