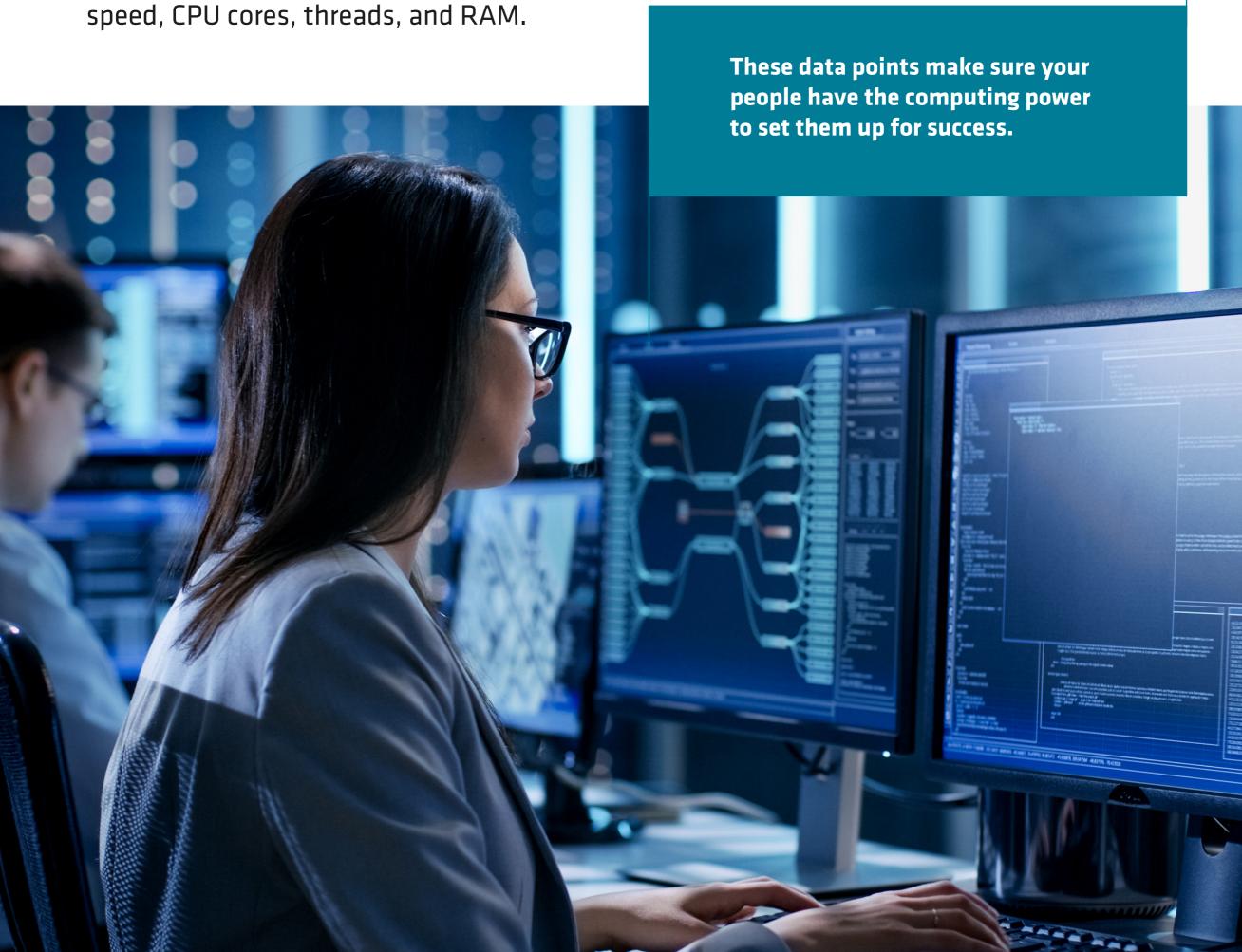


A GUIDE TO EVALUATING YOUR **BUSINESS PC PERFORMANCE**

Benchmarking helps you accurately compare business PCs based on factors like clock



DATA POINTS TO MEASURE



2.7-4.9

Clock speed estimates how fast your PC processes data and performs calculations. Look for a base speed of 2.7GHz and the ability to boost speed up to 4.9GHz.

Performance reflects many factors beyond clock speed, so the fastest GHz data may not produce the most muscular PC.

6-12

Each CPU core handles a specific

CORES

application or function, a multi-core processor is more efficient than a single-core processor with the same speed. While modern CPUs may have up to 64 cores, 6-8 cores are sufficient for everyday business laptop users.



12-16

THREADS

Threads let computers do many operations

together, like collaborating in a videoconference while operating a spreadsheet. More threads enhance responsiveness, throughput and speed of the process. Look for a 12-16 thread count in business laptop processors for an optimal user experience.

8-16 **GB**

RAM

RAM is where the data is stored that your CPU needs to run your applications

and open your files. The higher the RAM, the more quickly your CPU can complete its work, and the smoother your experience will be.

The best way to assess PC performance is to compare specific user scenarios among

competing hardware products. Commercial benchmarking tools provide the data.

BENCHMARKING PC PERFORMANCE

CPU

TOOLS

multithreaded performance.

Measure single and

Cinebench

Geekbench

CPU Mark

Passmark

SYSTEM

TOOLS

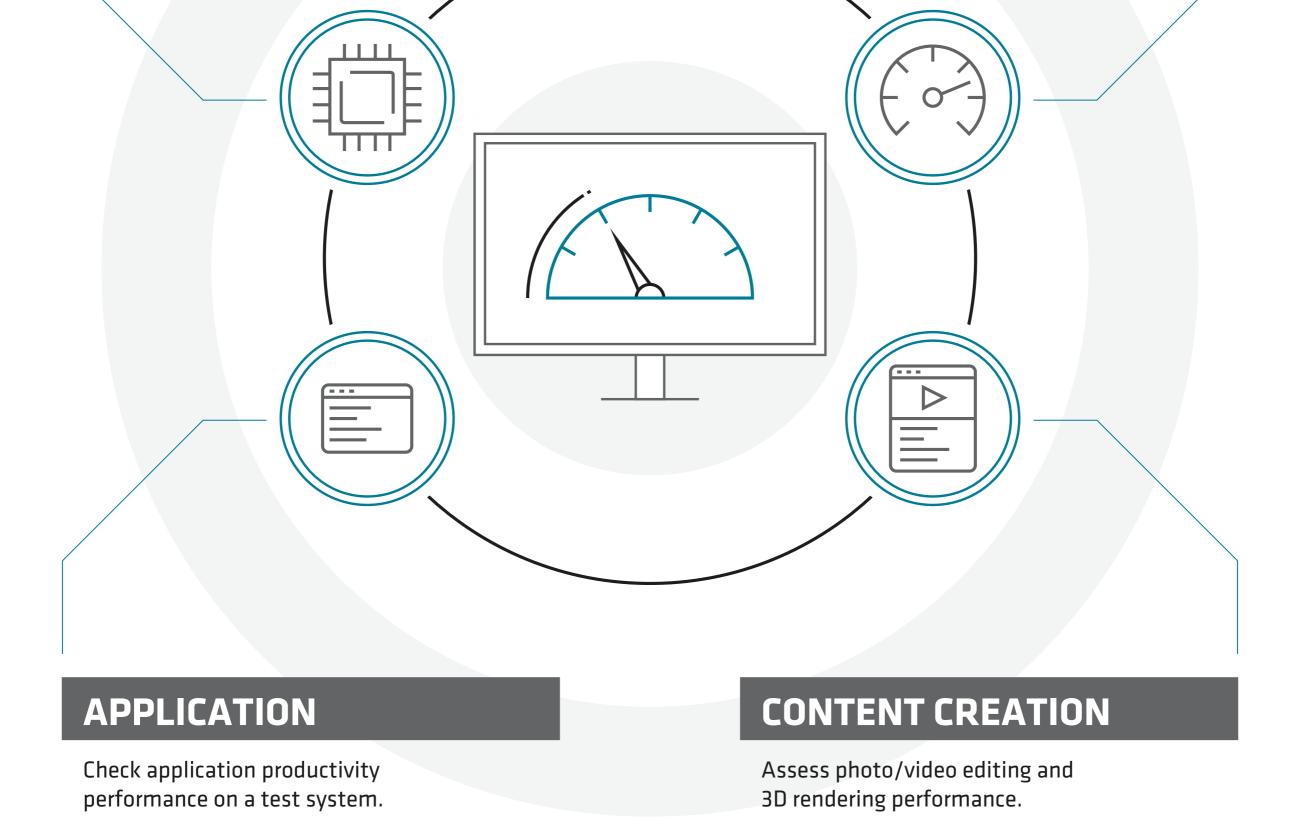
Track system performance with synthetic

and application-based benchmarks.

PCMark® 10 Benchmark

SYSmark

Passmark Overall Score



PCMark® 10 Applications – Overall

TOOLS

Procyon Office Productivity

TOOLS PCMark® 10 Digital Content Creation

Puget Systems Photoshop

Blender

BENCHMARKING BEST PRACTICES

DO YOUR HOMEWORK



Compare multiple data points from multiple software tools when assessing CPUs, systems, applications, and content production.

GET THE BIG PICTURE



Use the geomean of a large set of data points to reduce the potential for bias in benchmarking.



Measure the real-world PC performance data most relevant to your users' requirements and work habits.



TEST FOR MULTITASKING

Assess performance when multiple applications run together, like Microsoft Office users on a 9-person Teams call.

For more benchmarking best practices on measuring performance while evaluating processors and PCs for business, check out **AMD Ryzen™ PRO Processors**