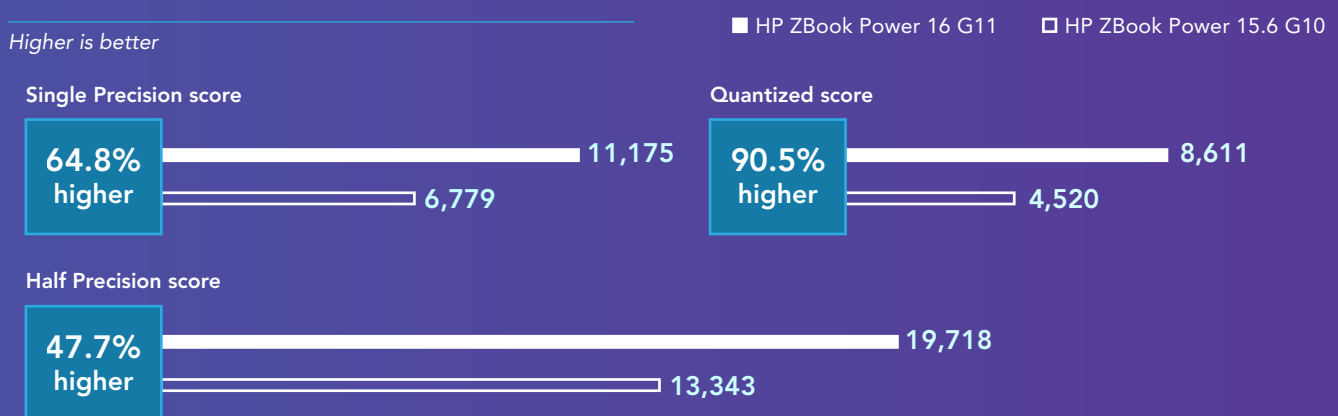# HP ZBook Power 16-inch G11 Mobile Workstation PC: Accelerate growth and performance

vs. an HP ZBook Power 15.6-inch G10 Mobile Workstation PC

With the right team in your corner and the right tools at your fingertips, you can win the productivity race and cross the finish line faster. In head-to-head AI, 3D rendering, and content creation workload performance comparisons, an HP ZBook Power 16-inch G11 Mobile Workstation PC powered by an Intel® vPro® with Intel Core™ Ultra 7 processor 165H raced circles around its Intel Core i7-13800H processor-powered predecessor.
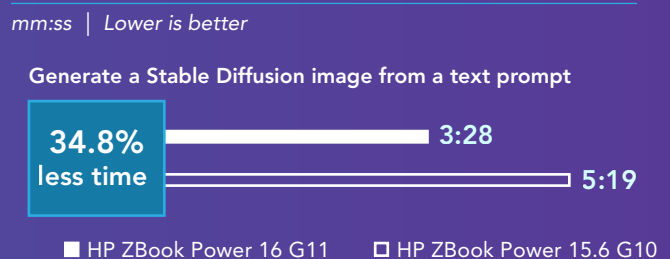
Set the pace with AI and ML technologies

The Geekbench AI benchmark measures CPU, GPU, and NPU capabilities for machine learning applications.[1] Wait less for valuable insights. The Single Precision score reports float32 precision, the Half Precision score reports float16 precision, and the Quantized score reports int8 precision.[2] In our testing, we used the Open Neural Network Exchange (ONNX) AI framework and DirectML AI backend for machine learning on Windows.

Higher is better

■ HP ZBook Power 16 G11   ☐ HP ZBook Power 15.6 G10

Single Precision score

64.8% higher
11,175
6,779

Quantized score

90.5% higher
8,611
4,520

Half Precision score
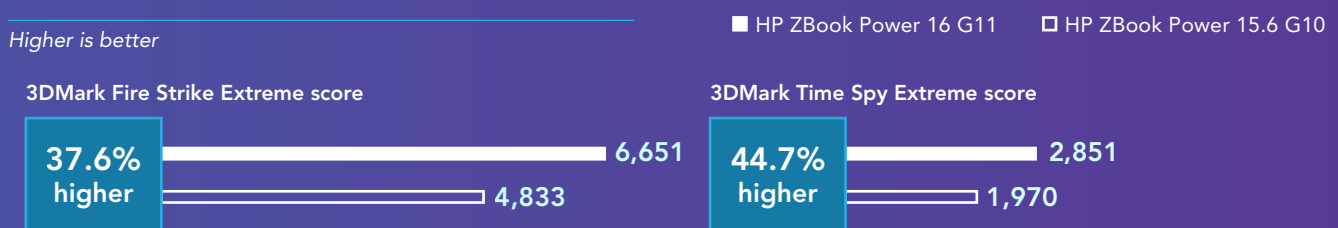
47.7% higher
19,718
13,343

Burn rubber while creating an image

Stable Diffusion is a generative AI model that produces photorealistic images from text prompts.[3] For our tests, we measured how long it took for each mobile workstation to generate an image based on identical Stable Diffusion text prompts.

mm:ss | Lower is better

Generate a Stable Diffusion image from a text prompt

34.8% less time
3:28
5:19

■ HP ZBook Power 16 G11   ☐ HP ZBook Power 15.6 G10

Speed content creation and graphics-intensive efforts

The 3DMark Fire Strike Extreme benchmark is a DirectX 11 test that stresses both CPU and GPU.[4] The 3DMark Time Spy Extreme benchmark is a DirectX 12 test that stresses graphics cards and multi-core processors.[5] Better real-time graphics performance can translate to faster 3D graphic rendering and smoother viewing experiences.

Higher is better

■ HP ZBook Power 16 G11   ☐ HP ZBook Power 15.6 G10

3DMark Fire Strike Extreme score

37.6% higher
6,651
4,833

3DMark Time Spy Extreme score

44.7% higher
2,851
1,970

1   Geekbench AI, "Introducing Geekbench AI," accessed November 5, 2024, **https://www.geekbench.com/ai/**.

2   Geekbench, "Geekbench AI workloads," accessed November 5, 2024, **https://www.geekbench.com/doc/geekbench-ai-workloads.pdf**.

3   AWS, "What is Stable Diffusion?" accessed November 5, 2024, **https://aws.amazon.com/what-is-stable-diffusion/**.

4   UL Procyon, "Overview of 3DMark Fire Strike Extreme benchmark," accessed November 5, 2024, **https://support.benchmarks.ul.com/support/solutions/articles/44002136196-overview-of-3dmark-fire-strike-extreme-benchmark**.

5   UL Procyon, "Overview of 3DMark Time Spy Extreme benchmark," accessed November 5, 2024, **https://support.benchmarks.ul.com/support/solutions/articles/44002136104-overview-of-3dmark-time-spy-extreme-benchmark**.

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