



The science behind the report:

Cross the finish line first with the HP ZBook Fury G1i 16"

This document describes what we tested, how we tested, and what we found. To learn how these facts translate into real-world benefits, read the report [Cross the finish line first with the HP ZBook Fury G1i 16"](#).

We concluded our hands-on testing on October 15, 2025. During testing, we determined the appropriate hardware and software configurations and applied updates as they became available. The results in this report reflect configurations that we finalized on August 21, 2025 or earlier. Unavoidably, these configurations may not represent the latest versions available when this report appears.

Our results

To learn more about how we have calculated the wins in this report, go to <http://facts.pt/calculating-and-highlighting-wins>. Unless we state otherwise, we have followed the rules and principles we outline in that document.

Table 1: Median results of our benchmark testing. Longer battery life, higher bandwidth, higher benchmark scores, and shorter project completion times are better.

Test / Subtest	HP ZBook Fury G1i 16"	Dell Pro Max 16 Plus
Procyon Office Productivity Battery Life Benchmark		
Time (hh:mm)	5:04	3:45
3DMark PCI Express feature test		
Bandwidth (GB/sec)	34.89	27.06
PCMark 10 Applications		
Overall score	18,866	18,113
Word sub-score	10,034	9,930
Excel sub-score	35,709	32,731
PowerPoint sub-score	17,539	16,369
Procyon Video Editing Benchmark		
Overall score	63,615	63,031

Test / Subtest	HP ZBook Fury G1i 16"	Dell Pro Max 16 Plus
PugetBench for Photoshop		
Overall score	8,737	8,684
Revit 2024 RFO Benchmark		
Model creation time (sec)	160.21	166.01
Render time (sec)	21.62	22.35
Export to DWF (sec)	384.53	389.41
Export to DWG (sec)	2,456.09	2,471.48
Export to PDF (sec)	1,378.00	1,387.15
Export to PNG (sec)	591.72	612.13
Activate first view time (sec)	16.46	18.16
SPECapc® for Solidworks 2024 (CPU)		
CPU composite score	2.90	2.81
Amuse 3.1 (GenAI image/video generation)		
Time to generate an image (mm:ss)	55:40	60:57
Time to generate a 2-second video (mm:ss)	26:22	28:43

System configuration information

Table 2: Detailed information on the systems we tested.

System configuration information	HP ZBook Fury G1i 16"	Dell Pro Max 16 Plus
Processor		
Vendor	Intel®	Intel®
Model number	Core™ Ultra 9 285HX, vPro®	Core™ Ultra 9 285HX, vPro®
Core frequency (GHz)	2.8 – 5.5	2.8 – 5.5
Number of cores	24	24
Number of threads	24	24
Cache (MB)	36	36
AI Engine capabilities (overall TOPS)	Up to 36	Up to 36
AI Engine capabilities (NPU TOPS)	Up to 13	Up to 13
Memory		
Amount (GB)	64 (2 x 32)	64 (2 x 32)
Type	DDR5 SODIMM	DDR5 CSoDIMM
Speed (MT/s)	5600	6400
Graphics		
Vendor	NVIDIA®	NVIDIA®
Model number	RTX PRO™ 5000 Blackwell Generation Laptop GPU	RTX PRO™ 5000 Blackwell Generation Laptop GPU
Driver	NVIDIA v32.0.15.7349	NVIDIA v32.0.15.7349
Storage		
Amount (TB)	1	1
Type	NVMe® PCIe Gen 4 x4	NVMe PCIe Gen 4 x4
Connectivity/expansion		
Wireless internet	Intel® Wi-Fi 7 BE200	Intel Wi-Fi 7 BE200
Bluetooth	5.4	5.4
USB	2 x Thunderbolt™ 5 with USB Type-C® 80Gbps 1xThunderbolt 4 with USB Type-C 40Gbps 1 x USB Type-A 10Gbps	2xThunderbolt 5 with USB Type-C 80Gbps 1xThunderbolt 4 with USB Type-C 40Gbps 2 x USB Type-A 5Gbps
Video	1 x HDMI® 2.1	1 x HDMI 2.1
Battery		
Type	Lithium-polymer	Lithium-polymer
Rated capacity (Wh)	99	96

System configuration information	HP ZBook Fury G1i 16"	Dell Pro Max 16 Plus
Display		
Size (in.)	16	16
Resolution	3,840 x 2,400	3,840 x 2,400
Touchscreen	No	No
Operating system		
Vendor	Microsoft	Microsoft
Name	Windows 11 Pro	Windows 11 Pro
Build number or version	24H2 Build 26100.4946	24H2 Build 26100.4946
BIOS		
BIOS name and version	HP X96 v01.01.10 07/21/2025	Dell v1.2.7 07/04/2025
Dimensions		
Height (in.)	1.09	0.68 – 0.75
Width (in.)	14.16	14.17
Depth (in.)	9.81	10.18
Weight (lbs)	5.36	5.63

How we tested

Setting up the systems

Setting up and updating the OEM image

1. Boot the system.
2. Follow the on-screen instructions to complete installation, using the default selections when appropriate.
3. Set the Windows (plugged in) Power Mode to Best Performance.
4. Set Screen and Sleep options to Never:
 - a. Right-click the desktop, and select Display settings.
 - b. From the left column, select System.
 - c. Click Power & Battery.
 - d. For all power options listed under Screen and Sleep, select Never.
5. Disable User Account Control notifications:
 - a. Select Windows Start, type UAC and press the Enter key.
 - b. Move the slider control to Never notify, and click OK.
6. Run Windows Update, and install all updates available.
7. Run the HP/Dell/Lenovo Support Assistant utilities, and install all recommended BIOS and driver updates available.
8. Verify the date and time are correct and synchronize the system clock with the time server.
9. Pause Automatic Windows Updates:
 - a. Click the Windows Start button.
 - b. Type Windows Update settings and press the Enter key.
 - c. From the Pause updates drop-down menu, select Pause for 5 weeks.

Capturing an image

1. Connect an external HDD to the system.
2. Click the Windows Menu button, and type Control Panel in the search bar. Click Control Panel → System and Security → Backup and Restore (Windows 7) → Create a system image.
3. Verify that the external HDD is selected as the save drive, and click Next.
4. Verify that all drives are selected to back up, and click Next.
5. Click Start backup.
6. When you see the prompt to create a system repair disc, select No, and close the dialogs.

Restoring an image

1. Connect an external HDD to the system.
2. Press and hold the Shift key while restarting the system.
3. Select Troubleshoot.
4. Select Advanced options.
5. Select See more recovery options.
6. Select System image recovery.
7. Select the User account.
8. Enter the system password, and click Continue.
9. At the Restore system files and settings screen, select Next.
10. Verify that the external HDD is selected, and click Next.
11. Once the recovery has completed, click Finish.

3DMark PCI Express feature testing

Setting up the test

1. Download 3DMark from <http://www.futuremark.com/benchmarks/3dmark/all>.
2. To install 3DMark with the default options, double-click the 3DMark installer.exe file.
3. To launch 3DMark, double-click the 3DMark desktop icon.
4. Enter the registration code, and click Register.
5. Exit 3DMark.

Running the test

1. To launch the benchmark, double-click the 3DMark desktop icon.
2. At the 3DMark Home screen, click the More Tests button.
3. Select the PCI Express feature test.
4. Click Run.
5. When the benchmark run completes, record the results.
6. Perform steps 1 through 5 two more times for each benchmark, and report the median result of the three runs.

Amuse 3.1 testing

Setting up the test

1. Download the Amuse application from <https://www.amuse-ai.com/>.
2. Using all the defaults, run the installer, and install the application.

Running the test

1. Launch Amuse.
2. In the prompt, type `A cute raccoon playing guitar on the beach`.
3. Select Image, and set the following parameters:
 - Image Count = 4
 - Aspect Ratio = Landscape (v3.0.1=768 x 512). (v3.1.0=1280x768)
 - Performance slider = Quality (Note: If the system is an AMD system and supports AMD XDNA Super Resolution, allow the toggle to be enabled [default setting].)
4. Select Create new variant each generation.
5. Click Generate Images. If prompted to, download needed model files. Accept the license agreement, and click Download.
6. After the image generation has completed, record the elapsed time.
7. Wait 5 minutes, repeat steps 2 through 6 twice, and capture the median result of the three runs.
8. In the prompt, type `A cute raccoon playing guitar on the beach`.
9. Select Video, and set the following parameters:
 - Video Count = 4.
 - Aspect Ratio = Landscape (704 x 448).
 - Performance slider = Quality (Note: If the system is an AMD system and supports AMD XDNA Super Resolution, allow the toggle to be enabled [default setting].)
 - Video Length = 2 seconds
10. Select Create new variant each generation.
11. Click Generate Videos. If prompted to, download needed model files. Accept the license agreement, and click Download.
12. After the image generation has completed, record the elapsed time.
13. Wait 5 minutes, repeat steps 8 through 12 twice, and record the median result of the three runs.

PCMark10 testing

Setting up the test

1. Download and install PCMark 10.
2. Open PCMark 10.
3. Click Options.
4. Enter the license key, and click Register.
5. Before running the benchmarks, install a licensed version of Microsoft 365 and verify that you are properly signed into the following apps: Excel, PowerPoint, and Word.

Running the test

1. Launch PCMark 10.
2. Click Benchmarks.
3. Click PCMark 10 Applications.
4. Click Run.
5. When the benchmark is complete, record the results.
6. Wait 15 minutes before rerunning the benchmark.
7. Repeat steps 2 through 6 twice, and report the median result of the three runs.

Procyon Battery Life Benchmark testing

Setting up the test

1. Boot the system.
2. Verify the following display and power settings:
 - Right-click the desktop, and select Display settings.
 - Uncheck the box next to Change brightness automatically when lighting changes, if available.
 - Uncheck the box next to Change brightness based on content, if available.
 - In the Scale drop-down menu, select 100%.
 - Select System from the left-hand pane.
 - Click Power & Battery.
 - For all power options listed under Screen and Sleep, select Never.
3. Download and install Procyon.
4. Open Procyon.
5. Click Battery Life Office Productivity Benchmark.
6. Click Register.
7. Enter the license key for the Office Productivity Battery Life Benchmark, and click Register.
8. Click Calibrate screen.
9. Using a nit meter, adjust the screen brightness to as close to 200 nits as possible.
10. Close Procyon.
11. Before running the benchmark, make sure to install a licensed version of Microsoft 365 and open Word, Excel, and PowerPoint applications and disable tips when possible.

Running the test

1. Boot the system.
2. Ensure the system is fully charged.
3. Go to the Windows Start Menu.
4. Type CMD to bring up command prompt.
5. Type `cd C:\Program Files\UL\Procyon`
6. To start the test, type `ProcyonCMD.exe -d "custom_definitions/office_productivity_mp_batterylife.def" -o "<Export_folder>/resultfilename.procyon-result"`
7. When prompted, unplug the system.
8. When the benchmark completes, plug in the system and power up the system.
9. Record the results.
10. Repeat steps 2 through 9 twice, and report the median result of the three runs.

Procyon Video Editing Benchmark

Setting up the test

1. Download and install Procyon.
2. Open Procyon.
3. Click Video Editing Benchmark.
4. Click Register.
5. Enter the license key for the Video Editing Benchmark, and click Register.
6. Before running the benchmarks, make sure to install a licensed version of Adobe Premiere Pro 14.5 or later.

Running the test

1. Launch Procyon.
2. Click Video Editing Benchmark.
3. Click Run.
4. When the benchmark is complete, record the results.
5. Wait 15 minutes before rerunning the benchmark.
6. Repeat steps 3 through 5 twice, and record the median result of the three runs.

Puget Bench for Photoshop testing

Setting up the test

1. Launch Adobe Photoshop.
2. Click through the Tutorial pop-up tips.
3. Close Adobe Photoshop.
4. Purchase a PugetBench for Creators license from <https://www.pugetsystems.com/pugetbench/creators/>.
5. Click the Download PugetBench for Creators for Windows or Mac.
6. After the download completes, double-click the installation file to install PugetBench.
7. Enter the license key in the license field. Click Activate.
8. Click Download Assets.

Running the test

1. Boot the system.
2. Open PugetBench for Creators.
3. Select the Photoshop test on the left side of the app.
4. Click Start Test.
5. When the benchmark finishes, record the overall score.
6. Close PugetBench for Creators, and restart the system under test.
7. Wait 30 minutes before performing the next run.
8. Repeat steps 1 through 7 twice, and record the median result of the three runs.

Revit 2024 RFO Benchmark testing

Setting up the test

1. Purchase, download and install Revit 2025 from <https://www.autodesk.com/products/revit/overview>.
2. Launch Revit 2025, and sign in with the account information.
3. At the Tutorial screen, click Don't show this again.
4. Close Revit 2025.
5. Download the Revit 2025 RFO Benchmark Tool from <https://www.revitforum.org/forum/revit-all-flavors/hardware-and-infrastructure/36875-rfo-benchmark-v3-updated-for-2025>.
6. Extract the Revit 2025 RFO Benchmark Tool.

Running the test

1. Open the Extracted Revit 2025 RFO Benchmark Tool directory.
2. To launch the benchmark, click _RFO Benchmark – Full_Expanded shortcut.
3. When the benchmark finishes, record the results.
4. Wait 15 minutes before performing the next run.
5. Repeat steps 1 through 3 twice, and record the median result of the three runs.

SPECapc for Solidworks 2024 testing

Setting up the test

1. Purchase and install a full Premium license of Solidworks 2024 Premium version from <https://www.solidworks.com/>.
2. Go to <https://gwpwg.spec.org/benchmarks/benchmark/specapc-solidworks-2024/> and purchase and download the vendor license of the benchmark.
3. Click on the SPECapc_sw2024_1.13.exe to install the benchmark.
4. Set the DPI scaling to 100%
 - Right-click the desktop, and select Display settings.
 - From the Scale drop-down menu, select 100%.
5. Shut down the system.

Running the test

1. Launch the SPECapc Solidworks 2024 benchmark by clicking on the desktop icon.
2. Click Run Benchmark.
3. When the test is complete, record the results.
4. Repeat steps 1 through 3 twice, and record the median result of the three runs.

Read the report ►

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