

The science behind the report:

Finish renders and design work sooner with the HP Z2 Tower G1i Desktop Workstation PC

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 Finish renders and design work sooner with the HP Z2 Tower G1i Desktop Workstation PC.

We concluded our hands-on testing on October 19, 2026. 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 July 19, 2026 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 https://facts.pt/calculating-and-highlighting-wins. Unless we state otherwise, we have followed the rules and principles we outline in that document.

Table 1: Results of our testing. Source: PT.

Performance & productivity tests	HP Z2 Tower G1i	Lenovo™ ThinkStation™ P3 Tower Gen 2
PassMark PerformanceTest v11.1 Build 1014		
Overall rating	16,510.1	14,473.9
CPU Mark score	68,110.7	64,627.0
Integer Math (million operations/s)	170,656.8	173,738.1
Floating Point Math (million operations/s)	224,624.4	222,877.2
Prime Numbers (million primes/s)	625.8	533.4
Extended Instructions (SSE) (million matrices/s)	63,180.6	61,093.4
Compression (KB/s)	791,309.6	766,982.2
Encryption (MB/s)	57,422.4	55,838.9
Physics (frames/s)	4,038.0	2,740.2
Sorting (thousand strings/s)	94,583.8	89,495.0
CPU Single Thread (million operations/s)	5,199.5	5,089.1

Performance & productivity tests	HP Z2 Tower G1i	Lenovo™ ThinkStation™ P3 Tower Gen 2
2D Graphics Mark score	1,473.5	1,451.1
Simple Vectors (thousand vectors/s)	25.7	26.6
Fonts and Text (operations/s)	466.1	464.4
Windows Interface (operations/s)	108.6	109.5
Image Filters (filters/s)	2,877.4	2,651.3
Image Rendering (thousand images/s)	325.2	318.3
Direct 2D (frames/s)	109.0	108.6
PDF Rendering (operations/s)	58.2	57.5
Direct 2D SVG (frames/s)	153.3	149.7
3D Graphics Mark score	38,469.2	32,314.4
DirectX 9 (frames/s)	416.0	395.1
DirectX 10 (frames/s)	192.2	188.3
DirectX 11 (frames/s)	306.4	304.3
DirectX 12 (frames/s)	179.7	95.8
GPU Compute (operations/s)	18,139.3	17,642.5
Memory Mark score	3,626.3	3,044.8
Database Operations (thousand operations/s)	18,637.6	13,303.2
Memory Read Cached (MB/s)	41,432.8	42,088.0
Memory Read Uncached (MB/s)	16,213.8	13,592.9
Memory Write (MB/s)	15,556.4	11,217.3
Available RAM - Megabytes	54,538.1	57,626.6
Memory Latency - Nanoseconds (lower is better)	42.6	50.8
Memory Threaded (MB/s)	87,419.3	60,577.8
Disk Mark score	54,972.5	52,145.2
Disk Sequential Read (MB/s)	11,063.6	9,400.0
Disk Sequential Write (MB/s)	3,191.9	4,507.6
IOPS 32KQD20 (MB/s)	3,952.9	3,363.5
IOPS 4KQD1 (MB/s)	115.7	110.6
Cinebench 2026 v2026.1.0		
CPU multi-core score	9,319	7,927
Geekbench 7 Pro v7.0.0		
CPU multi-core score	26,261	22,601
Geekbench AI v1.7.0 - CPU (OpenVINO)	CPU	CPU
Single precision score	9,674	9,259
Half precision score	10,881	9,981
Quantized score	16,923	17,415

Performance & productivity tests	HP Z2 Tower G1i	Lenovo™ ThinkStation™ P3 Tower Gen 2
Image Classification (SP)	6,325	6,571
Image Classification (HP)	7,712	7,497
Image Classification (Q)	10,934	11,454
Image Segmentation (SP)	8,003	8,300
Image Segmentation (HP)	4,724	4,708
Image Segmentation (Q)	13,091	13,344
Pose Estimation (SP)	15,260	14,536
Pose Estimation (HP)	15,069	14,622
Pose Estimation (Q)	32,277	33,195
Object Detection (SP)	6,077	5,805
Object Detection (HP)	7,742	7,495
Object Detection (Q)	11,609	11,956
Face Detection (SP)	16,197	15,958
Face Detection (HP)	22,338	20,475
Face Detection (Q)	29,913	31,187
Depth Estimation (SP)	14,199	13,416
Depth Estimation (HP)	18,845	17,294
Depth Estimation (Q)	32,463	33,788
Style Transfer (SP)	43,079	30,358
Style Transfer (HP)	43,326	27,155
Style Transfer (Q)	93,788	94,610
Image Super-Resolution (SP)	9,121	8,864
Image Super-Resolution (HP)	9,880	9,264
Image Super-Resolution (Q)	18,129	17,896
Text Classification (SP)	4,239	4,181
Text Classification (HP)	3,931	3,795
Text Classification (Q)	6,069	6,154
Machine Translation (SP)	3,986	4,138
Machine Translation (HP)	7,793	7,642
Machine Translation (Q)	3,703	3,882
Geekbench AI v1.7.0 - NPU (OpenVINO)	NPU (Intel® AI Boost)	NPU (Intel AI Boost)
Single precision score	9,834	6,677
Half precision score	10,155	9,715
Quantized score	15,842	15,328
Image Classification (SP)	6,244	3,676
Image Classification (HP)	7,090	6,912

Performance & productivity tests	HP Z2 Tower G1i	Lenovo™ ThinkStation™ P3 Tower Gen 2
Image Classification (Q)	10,348	10,258
Image Segmentation (SP)	8,207	5,704
Image Segmentation (HP)	2,920	2,879
Image Segmentation (Q)	3,574	3,543
Pose Estimation (SP)	15,307	11,619
Pose Estimation (HP)	33,748	33,753
Pose Estimation (Q)	76,128	76,948
Object Detection (SP)	6,126	3,338
Object Detection (HP)	6,103	5,887
Object Detection (Q)	10,239	10,009
Face Detection (SP)	16,662	10,698
Face Detection (HP)	17,509	16,956
Face Detection (Q)	34,543	34,510
Depth Estimation (SP)	14,406	10,006
Depth Estimation (HP)	17,981	16,174
Depth Estimation (Q)	34,322	30,150
Style Transfer (SP)	43,034	28,554
Style Transfer (HP)	53,380	49,531
Style Transfer (Q)	97,053	91,405
Image Super-Resolution (SP)	9,099	5,549
Image Super-Resolution (HP)	15,999	15,966
Image Super-Resolution (Q)	30,824	30,595
Text Classification (SP)	4,307	2,982
Text Classification (HP)	2,150	2,070
Text Classification (Q)	2,116	2,019
Machine Translation (SP)	4,330	3,038
Machine Translation (HP)	4,609	4,247
Machine Translation (Q)	4,715	4,351
LM Studio Real World Test (LM Studio Bionic v1.0.7, lmstudio-community Qwen3 8B Q4_K_M model)		
Time to generate response - min:sec (lower is better)	00:13	00:16
Topaz Video v1.7.0		
3,840 x 2,160 (4K) Artemis 1X (FPS)	4.60	4.47
3,840 x 2,160 (4K) Artemis 2X (FPS)	3.29	2.46
3,840 x 2,160 (4K) Artemis 4X (FPS)	0.87	0.75
3,840 x 2,160 (4K) Iris 1X (FPS)	5.54	5.48
3,840 x 2,160 (4K) Iris 2X (FPS)	3.21	2.97

Performance & productivity tests	HP Z2 Tower G1i	Lenovo™ ThinkStation™ P3 Tower Gen 2
3,840 x 2,160 (4K) Iris 4X (FPS)	1.00	0.76
3,840 x 2,160 (4K) Proteus 1X (FPS)	4.77	4.72
3,840 x 2,160 (4K) Proteus 2X (FPS)	3.42	2.87
3,840 x 2,160 (4K) Proteus 4X (FPS)	0.97	0.79
3,840 x 2,160 (4K) Proteus Natural 2X (FPS)	1.44	1.41
3,840 x 2,160 (4K) Gaia 1X (FPS)	1.61	1.59
3,840 x 2,160 (4K) Gaia 2X (FPS)	1.10	1.08
3,840 x 2,160 (4K) Gaia 4X (FPS)	0.80	0.77
3,840 x 2,160 (4K) Gaia Animation 2X (FPS)	4.11	3.27
3,840 x 2,160 (4K) Nyx 1X (FPS)	1.72	1.69
3,840 x 2,160 (4K) Nyx 2X (FPS)	2.43	2.38
3,840 x 2,160 (4K) Nyx Fast 1X (FPS)	3.91	3.83
3,840 x 2,160 (4K) Nyx XL 1X (FPS)	0.37	0.36
3,840 x 2,160 (4K) Rhea 4X (FPS)	0.83	0.70
3,840 x 2,160 (4K) RXL 4X (FPS)	0.82	0.69
3,840 x 2,160 (4K) Hyperion HDR 1X (FPS)	12.86	9.24
3,840 x 2,160 (4K) 4X Slowmo Apollo (FPS)	7.44	7.26
3,840 x 2,160 (4K) 4X Slowmo APFast (FPS)	16.21	17.71
3,840 x 2,160 (4K) 4X Slowmo Chronos (FPS)	3.43	3.37
3,840 x 2,160 (4K) 4X Slowmo CHFast (FPS)	6.79	6.58
3,840 x 2,160 (4K) 16X Slowmo Aion (FPS)	12.44	12.17
Blender Benchmark using CPU (Blender Benchmark Launcher v3.3.0, Blender v5.2.0)		
Monster (samples per minute)	266.24	246.28
Junkshop (samples per minute)	183.91	150.58
Classroom (samples per minute)	136.98	127.54
Autodesk® Arnold Renderer version 7.5.0.0		
CPU render time - min:sec (lower is better)	24:48	31:18
Chaos V-Ray CPU Benchmark v6.00.02		
Score	41,150	34,016
Revit RFO Benchmark 3.4 - Full Expanded (Autodesk Revit® 2026 v2026.5)		
Model creation benchmark (sec) (lower is better)	134.03	139.03
Export benchmark - Export all views as PNGs at 300 dpi (sec) (lower is better)	563.15	575.24
Export benchmark - Export all views as DWFs (sec) (lower is better)	2,142.79	2,228.14
Export benchmark - Export all views as DWGs (sec) (lower is better)	0.27	0.32
Export benchmark - Create PDF all views as vector (sec) (lower is better)	1.16	1.01
Export benchmark - Create PDF all views as raster (sec) (lower is better)	13.78	14.49

Performance & productivity tests	HP Z2 Tower G1i	Lenovo™ ThinkStation™ P3 Tower Gen 2
Render benchmark - Render (sec) (lower is better)	17.63	21.02
Graphics - Activate first view (sec) (lower is better)	12.02	13.03
Graphics - Change view visual style from a common start (sec) (lower is better)	63.48	63.03
Graphics - Change view visual style from a common end (sec) (lower is better)	62.22	65.32
Graphics - Change view visual style in sequence (sec) (lower is better)	61.47	63.60
Graphics - Refresh views (sec) (lower is better)	157.75	163.45
Graphics - Rotate views (sec) (lower is better)	53.98	56.27
SPECworkstation® 4.0 Benchmark v4.0.0		
AI & Machine Learning overall score	2.75	2.29
Energy overall score	2.82	2.26
Financial Services overall score	2.19	1.93
Life Sciences overall score	3.22	2.79
Media & Entertainment overall score	3.06	2.85
Product Design overall score	2.55	2.05
Productivity & Development overall score	1.32	1.16
SPECapc® for Siemens NX 2024 (NX 2024 v2406.0.0.6001)		
Viewport-Studio Composite score	2.17	1.94
Viewport-Shaded Composite score	1.68	1.62
Viewport-Wireframe Composite score	1.75	1.60
Computational-LoadModel Composite score	1.38	1.25
Computational-ExportModel Composite score	2.04	1.89
Computational-MassPropCalcs Composite score	1.49	1.43
Computational-ClosestPointCalcs Composite score	1.97	1.88

System configuration information

Table 2: Detailed information on the systems we tested. Source: PT.

System	HP Z2 Tower G1i Desktop Workstation PC	Lenovo ThinkStation P3 Tower Gen 2
Processor		
Vendor	Intel®	Intel
Model number	Core™ Ultra 9 285K	Core Ultra 9 285K
Core frequency (GHz)	3.2 – 5.7	3.2 – 5.7
Number of cores	(24) 8 x Performance Cores 16 x Efficient Cores	(24) 8 x Performance Cores 16 x Efficient Cores
Number of threads	24	24
Cache (MB)	36	36
AI engine capabilities NPU TOPS	13	13
NPU driver	Intel 32.0.100.5540	Intel 32.0.100.5540
Memory		
Amount (GB)	64 (2 x 32)	64 (2 x 32)
Type	DDR5	DDR5
Speed (MT/s)	5,600	5,600
Graphics		
Vendor	NVIDIA®	NVIDIA
Model number	RTX™ PRO 4000 Blackwell	RTX PRO 4000 Blackwell
Driver	NVIDIA 32.0.15.9706	NVIDIA 32.0.15.9706
Storage		
Model	Phison PSEMN01TA87NC0	Samsung MZVLC512HFJD-00BLL
Amount	1 TB	512 GB
Type	PCIe Gen5 NVMe M.2 SSD	PCIe Gen5 NVMe M.2 SSD
Connectivity/expansion		
Ethernet	Intel I219-LM	Intel I219-LM
Bluetooth	N/A	N/A
USB	Front: 4 x USB-A 10Gbps 2 x USB-C 20Gbps Rear: 3 x USB-A 480Mbps 2 x USB-A 10Gbps	Front: 2 x USB-A 5Gbps 2 x USB-A 10Gbps 1 x USB-C 20Gbps Rear: 2 x USB-A 480Mbps 2 x USB-A 5Gbps
Video	6 x DisplayPorts	1 x HDMI 6 x DisplayPorts
Display		
Size (inches)	28	28
Type	Acer B286HK	Acer B286HK
Resolution	1,920 x 1,200	1,920 x 1,200

System	HP Z2 Tower G1i Desktop Workstation PC	Lenovo ThinkStation P3 Tower Gen 2
Operating system		
Vendor	Microsoft	Microsoft
Name	Windows 11 Pro	Windows 11 Pro
Build number or version	25H2 Build 26200.9457	25H2 Build 26200.9457
BIOS		
BIOS name and version	HP X51 Ver.02.02.03	Lenovo S0MKT1AA

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
    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 available updates.
7. Run the HP/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 Enter.
    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.

Testing with Arnold Renderer

Setting up the test

1. Purchase and download Arnold from https://www.autodesk.com/.
2. Download and install 7-zip from https://www.7-zip.org/.
3. Go to https://dpel.aswf.io/alab/, and download the two test scenes to the Downloads directory:
    a. Asset Structure - v.2.3.0 (aka Alab-2.3.0.zip)
    b. Techvar Assets - v.2.2.0 (aka alab-techvars.v2.2.0.zip)
4. Launch PowerShell in Administrator mode, and enable long path support by typing:
5. New-ItemProperty -Path "HKLM:\SYSTEM\CurrentControlSet\Control\FileSystem" -Name "LongPathsEnabled" -Value 1 -PropertyType DWORD -Force
6. Reboot the system.
7. Using 7-zip, extract the two test scenes using the following PowerShell script:

```
$ErrorActionPreference = 'Stop'
$7z    = "C:\Program Files\7-Zip\7z.exe"
$root  = "C:\alab"          # repo root
$usd   = "C:\alab\ALab"     # actual USD root
cd "$HOME\Downloads"

# Guard: Move-Item nests instead of renaming if the target already exists
if (Test-Path $root) { throw "$root already exists. Delete or rename it first." }

# 1. Asset Structure -> C:\alab
& $7z x ALab-2.3.0.zip -oC:\stage_alab
if ($LASTEXITCODE -gt 1) { throw "7-Zip failed on Asset Structure (exit $LASTEXITCODE)" }
Move-Item C:\stage_alab\ALab-2.3.0 $root
if (-not (Test-Path "$usd\entry.usda")) { throw "entry.usda not found at $usd" }
Remove-Item C:\stage_alab -Recurse -Force

# 2. Techvars -> staging folder (zip has a 'techvar_assets' wrapper)
& $7z x alab-techvars.v2.2.0.zip -oC:\stage_tv
if ($LASTEXITCODE -gt 1) { throw "7-Zip failed on Techvars (exit $LASTEXITCODE)" }
if (-not (Test-Path C:\stage_tv\techvar_assets\fragment)) { throw "techvar_assets\
fragment not found" }

# 3. Merge techvar fragment onto the structure fragment, overwriting
robocopy C:\stage_tv\techvar_assets\fragment "$usd\fragment" /E /IS /IT /MOVE /R:1 /W:1 /NFL /NDL
if ($LASTEXITCODE -ge 8) { throw "robocopy failed (exit $LASTEXITCODE)" }
Remove-Item C:\stage_tv -Recurse -Force

# 4. Verify
Test-Path "$usd\entry.usda"
"{0:N2} GB" -f ((Get-ChildItem "$usd\fragment" -Recurse -File | Measure-Object Length
-Sum).Sum / 1GB)
```

8. Install Arnold.
9. Extract the Arnold zip file.
10. Inside the Bin directory, click ArnoldLicenseManager.exe.
11. Install a single-user license.
12. When prompted, install Autodesk licensing software.
13. Log in with your Autodesk account
14. Click the Windows Start button, and type Edit the system environment variables
15. Under the Advanced tab, click Environment Variables.
16. Under the System variables section, scroll down, select Path, and click Edit.
17. Click New, browse to where the Arnold\bin directory is located, and click OK.

Running the CPU render test

1. Open PowerShell in Administrator mode, browse to the Arnold\bin path, and type:

```
kick C:\alab\ALab\entry.usda -frame 1010 -dw -dp -device cpu -set options.camera /root/camera01/
GEO/renderCam_hrc/renderCam_buffer/renderCam_srt/renderCam -set options.xres 1920 -set options.yres
1080 -set options.AA_samples 6 -set options.GI_diffuse_depth 2 -set options.GI_specular_depth 2 -set
options.GI_transmission_depth 2 -set options.GI_total_depth 10 -ii -o C:\alab\out\cpu_warmup.exr -v
5 -logfile C:\alab\out\cpu_warmup.txt
```

2. Record the time rendered reported in the log file.
3. Repeat steps 1 and 2 two more times.
4. Record the median result.

Testing with the Blender Benchmark

Setting up the test

1. Download the Blender Benchmark from https://opendata.blender.org/.

Running the test

1. Launch the Blender Benchmark.
2. At the Welcome screen, click Next.
3. Select Blender version 5.2.0, and click Next.
4. At the Benchmark Scenes screen, click Next.
5. At the Benchmark Device screen, select either the CPU or GPU option, and click Start Benchmark.
6. Record the results.
7. Wait 15 minutes before performing the next run.
8. Repeat steps 1 through 7 two more times, and record the median result.

Testing with Chaos V-Ray benchmark

Setting up the V-Ray benchmark

1. Download the V-Ray benchmark from https://www.chaos.com/benchmark-download.

Running the V-Ray benchmark

We captured the following metrics for this testing.

- V-Ray – CPU

1. Run V-Ray benchmark.
2. Using V-Ray for CPU, run V-Ray for 5 minutes. Record the results.
3. Wait 5 minutes before performing the next run.
4. Repeat steps 2 through 3 two more times.
5. Record the median result.

Testing with Cinebench 2026

Setting up the test

1. Download and install Cinebench 2026 from https://www.maxon.net/en/downloads/cinebench-downloads.
2. Launch Cinebench 2026.
3. Select File → Advanced benchmark.
4. From the Minimum Test Duration drop-down menu, select Off.

Running the multi-thread test

1. Launch Cinebench 2026.
2. Next to CPU (Multiple Thread), click Start.
3. Record the result.
4. Wait 10 minutes before rerunning.
5. Repeat steps 1 through 4 two more times, and report the median result.

Running the single-thread test

1. Launch Cinebench 2026.
2. Next to CPU (Single Thread), click Start.
3. Record the result.
4. Wait 10 minutes before rerunning.
5. Repeat steps 1 through 4 two more times, and report the median result.

Testing with Geekbench 7 Pro

Setting up the test

1. Purchase, download, and install Geekbench 7 Pro from https://www.geekbench.com/download/.

Running the test

1. Launch Geekbench.
2. Click Run CPU Benchmark.
3. Record the result.
4. Wait 5 minutes before re-running.
5. Repeat steps 1 through 4 two more times, and report the median result.

Testing with the Geekbench AI benchmark

Setting up the test

1. Purchase and download a Geekbench AI Pro license from https://www.geekbench.com/ai/download/.
2. Using all the defaults, run the installer, and install the benchmark.

Running the test

1. Launch Geekbench AI.
2. Enter the license key.
3. For CPU testing, select:
   - AI Framework: OpenVINO™
   - AI Backend: CPU
   - AI Device: processor
4. For NPU testing, select:
   - AI Framework: OpenVINO
   - AI Backend: NPU
   - AI Device: Intel AI Boost
5. Click Run AI Benchmark.
6. Wait 5 minutes before rerunning.
7. Repeat steps 3 through 5 two more times, and record the median results.

Testing with LM Studio

Setting up the test

1. Download LM Studio from https://lmstudio.ai.
2. Run the installer, and install. Use all defaults.
3. Launch LM Studio.
4. Click Create your first project.
5. Name the project, and click Create.
6. Click Choose a model.
7. Click Get local models.
8. In the Search bar type Qwen3 8B Q4_K_M, and select it.
9. To download the Qwen3 8B model, click Download.

Running the test

1. Launch LM Studio.
2. Select Load a model, and choose the Qwen3 8B Q4_K_M model.
3. When the model is fully loaded, in the message field, type: How can Intel Core Ultra Processors in HP ZBooks help enterprise customers deliver better user experience, productivity, performance and ROI?
4. Click Send.
5. When the test completes, record the results.
6. Delete the Chat messages.
7. Open a new chat by clicking the + icon, and reload the same model.
8. Wait 5 minutes, open a new chat window, repeat steps 2 through 7 two more times, and record the median result.

Testing with PassMark PerformanceTest

Setting up the test

1. Install PassMark PerformanceTest.
2. Download PassMark PerformanceTest from https://www.passmark.com/products/performancetest/download.php.
3. To begin the installation, press Install.
4. Select Accept to accept the license agreement, and press Next.
5. After the installation is complete, deselect Launch Performance Test, and press Finish.

Running the test

1. To launch PassMark PerformanceTest, click the PassMark PerformanceTest icon.
2. To start the benchmark, click Run Benchmark.
3. When the test completes, record the results.
4. Repeat steps 1 through 3 two more times, and report the median result.

Testing with Revit RFO benchmark

Setting up the test

1. Purchase, download, and install Revit 2026 from https://www.autodesk.com/products/revit/overview.
2. Launch Revit 2026, and sign in with the account information.
3. At the Tutorial screen, click Skip.
4. Close Revit 2026.
5. Download the Revit 2026 RFO Benchmark Tool from https://www.revitforum.org/forum/revit-all-flavors/hardware-and-infrastructure/36875-rfo-benchmark-v3-updated-for-2027.
6. Extract the Revit 2026 RFO Benchmark Tool.

Running the test

1. Open the Extracted Revit 2026 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 2 through 4 two more times, and record the median result.

Testing with SPECapc for Siemens NX 2024

Setting up the test

1. Purchase and install Siemens NX 2406.0.0.6001 with an automated Testing Studio license from https://cloud.sw.siemens.com/admin.
2. Launch Siemens NX, and accept the agreement.
3. Maximize the NX window.
4. Hide all the tabs on the left column by clicking the settings icon, scroll down to Tabs, and deselect every tab option.
5. Right-click in the tool bar area of the main NX window, and select Customize.
6. Select the Tabs/Bars tab, uncheck every item in the list except for File, and click Close.
7. Exit Siemens NX.
8. Set the taskbar to automatically hide:
   - Right-click the taskbar and select Taskbar settings.
   - Under Taskbar behaviors select Automatically hide the taskbar.
9. Install Python with PATH:
   a. Download python from https://www.python.org/downloads/.
   b. Click the python executable.
      i. Check the box next to Add python to PATH.
      ii. Click Customize installation.
      iii. Check the box next to for all users and click Next.
      iv. Leave the default selections and click Install.
      v. Click Close.
10. Go to https://gwpg.spec.org/benchmarks/benchmark/specapc-for-siemens-nx-2024/, and purchase and download the vendor license of the benchmark.
11. To install the benchmark, click SPECapc_SNX2024_setup_1.01.exe.
12. Set the screen resolution to at least 1,920 x 1,080 and DPI scaling to 100%:
    a. Right-click the desktop, and select Display settings.
    b. From the Scale drop-down menu, select 100%.
13. Shut down the system.

Running the test

1. To launch the SPECapc for Siemens NX 2024 benchmark, click the desktop icon.
2. Click Run Benchmark.
3. When the test is complete, record the results.
4. Repeat steps 1 through 3 two more times, and record the median result.

Testing with SPECworkstation 4.0

Setting up the test

1. Go to https://gwpg.spec.org/benchmarks/benchmark/specworkstation-4_0/, purchase, and download the vendor license of the benchmark.
2. To install, click SPECworkstation-Setup-4.0.0.exe.
3. Turn off Windows Defender Firewall.
4. Click the Windows Menu button.
5. In the search bar, type Firewall
6. Select Windows Defender Firewall.
7. In the left-hand column, select Turn Windows Defender Firewall on or off.
8. Under both Private and Public network settings, choose Turn off Windows Defender Firewall, and click OK.

Running the test

1. Launch SPECworkstation.
2. Click Run.
3. Report results and reboot the system
4. Repeat steps 1 through 3 two more times, and record the median result.

Testing with Topaz Video

Setting up the test

1. Purchase, download and install Topaz Labs Video from https://www.topazlabs.com/downloads.

Running the test

1. Launch Topaz Labs Video.
2. Enter license information, and click OK.
3. Select Process → Benchmark.
4. From the Input Resolution drop-down menu, select 3,840x2,160 (4K).
5. Click Benchmark.
6. When the test completes, record the results.
7. Wait 15 minutes before retesting.
8. Repeat steps 3 through 9 two more times, and record the median result.

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How we created this report

A PT team, which includes the contributors we've listed and others, created this report and performed the technical work behind it. We used AI to help outline, draft, and proofread this report, as well as to aid in chart creation, image editing, and content layout.

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