

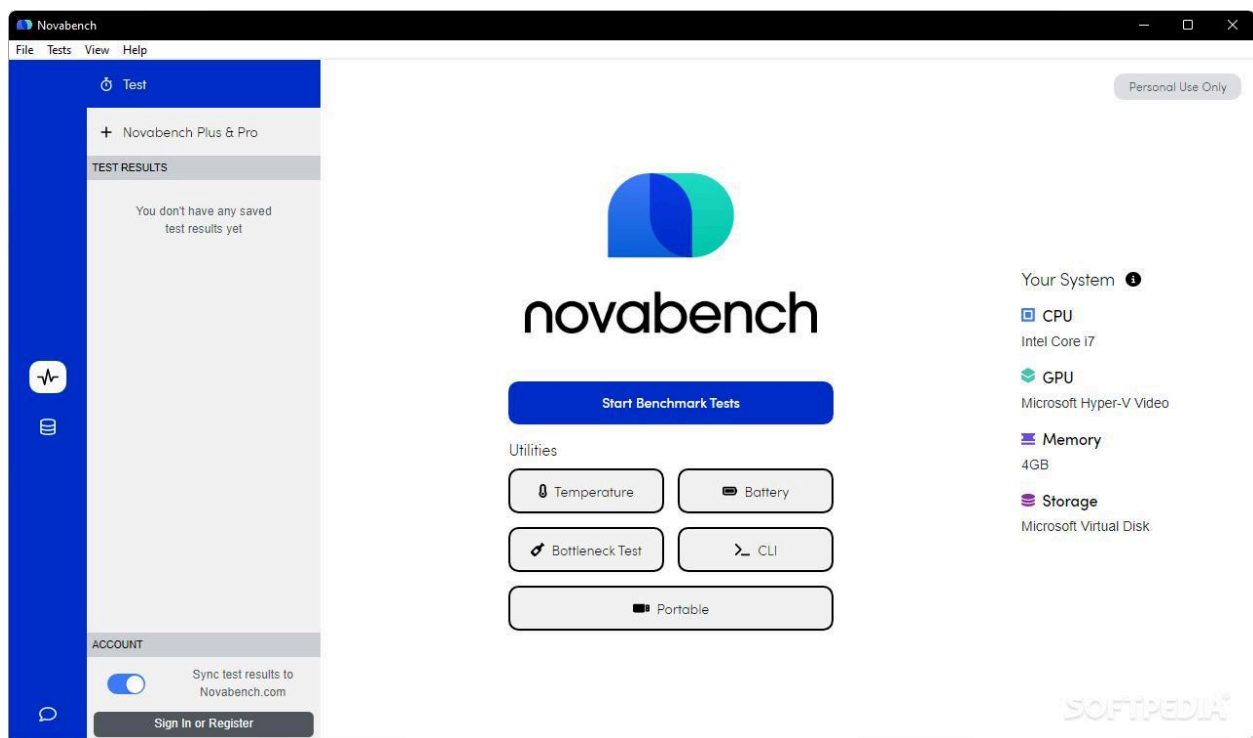
You can enhance your NovaBench tutorial by inserting images at the appropriate locations. Since I can't retrieve or embed external images directly right now, here is a version showing where useful pictures should be placed and what they should depict.

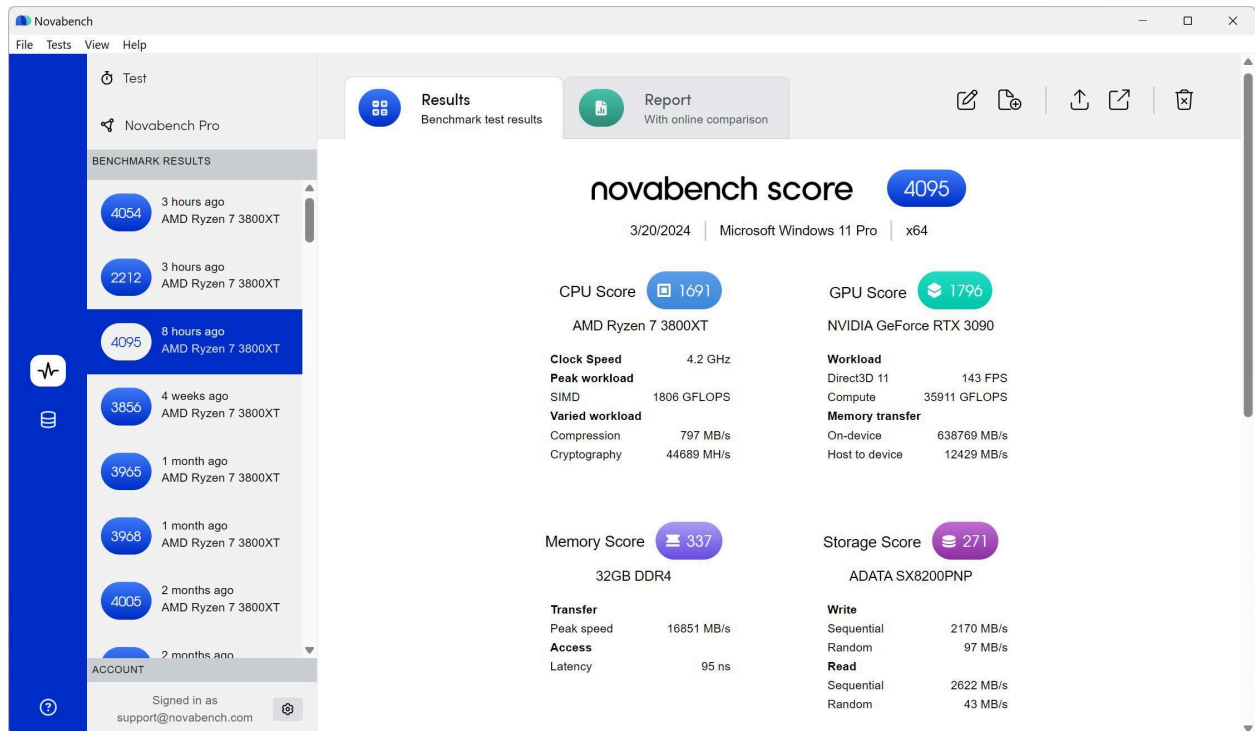
How to Use NovaBench to Check PC Performance on Windows, macOS, and Linux

Introduction

NovaBench is a free benchmarking utility that measures the performance of your computer's CPU, GPU, RAM, and storage devices. It provides an overall performance score and detailed component results that can help users evaluate system health and identify performance bottlenecks.

Suggested Image





Saved Test Results

- ☐ 3882 (now)
- ☐ 3832 (11 days ago)
- ☐ 3869 (12 days ago)
- ☐ 3582 (one month ago)

[Compare Results](#)

Benchmark

3882 (now) X

Novabench Score: 3882

2/10/2021 3:35 PM

OS: Microsoft Windows 10 Pro**CPU:** AMD Ryzen 7 3800XT 8-Core running at 4.18GHz**GPU:** NVIDIA GeForce RTX 3090**CPU Score****2106**[Show details](#)**RAM Score - 32GB****332**

RAM Speed: 32253 MB/s

GPU Score**1220**Direct3D11: 214 FPS
OpenCL: 28106 GFLOPS**Disk Score****224**Write Speed: 2060 MB/s
Read Speed: 1611 MB/s**View Performance Charts and Comparisons**[Click here to compare this result on Novabench.com](#)

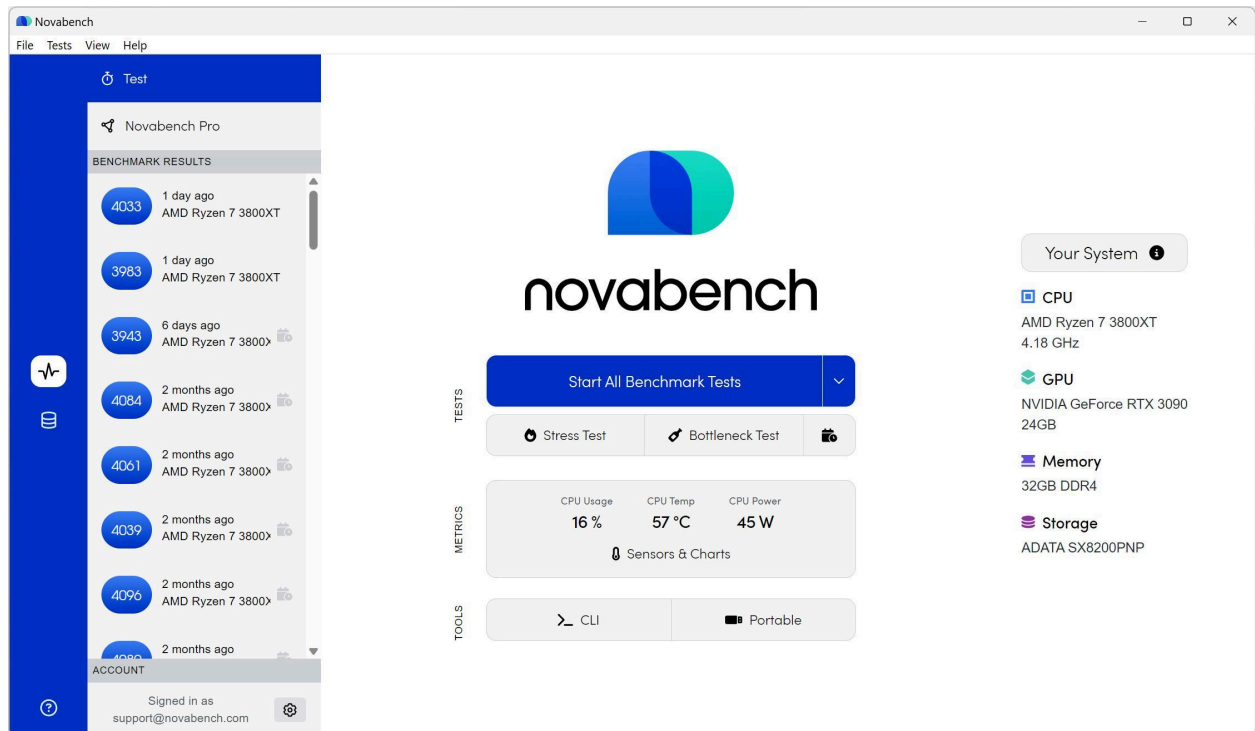


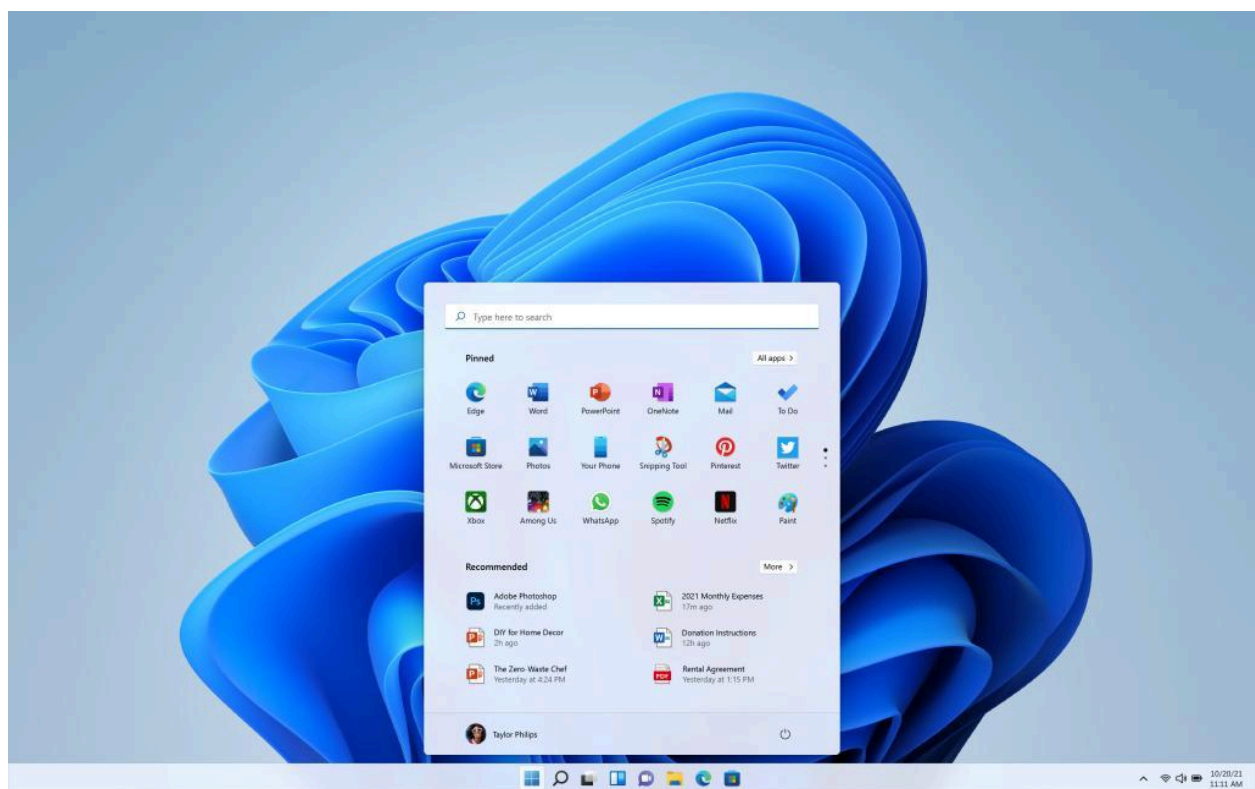
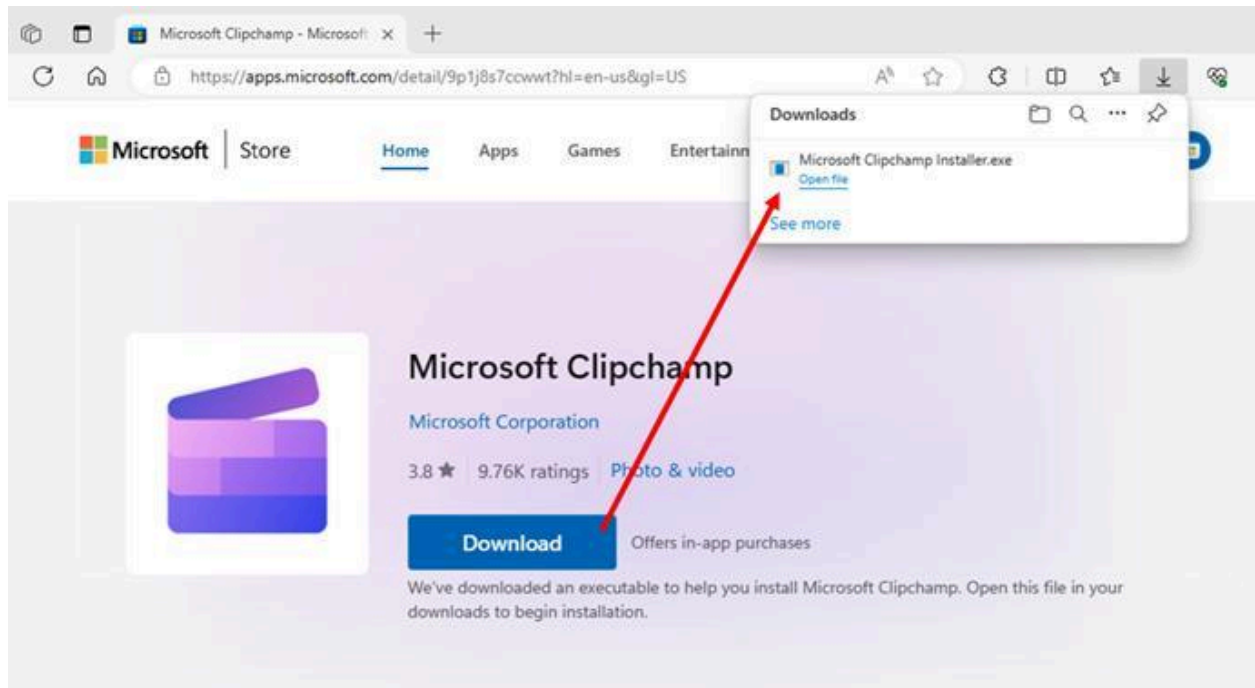
Figure 1: Example of a computer benchmarking application displaying performance results.

Installing and Running NovaBench on Windows

Step 1: Download NovaBench

1. Open your web browser.
2. Visit NovaBench's official website.
3. Download the Windows installer.

Suggested Image



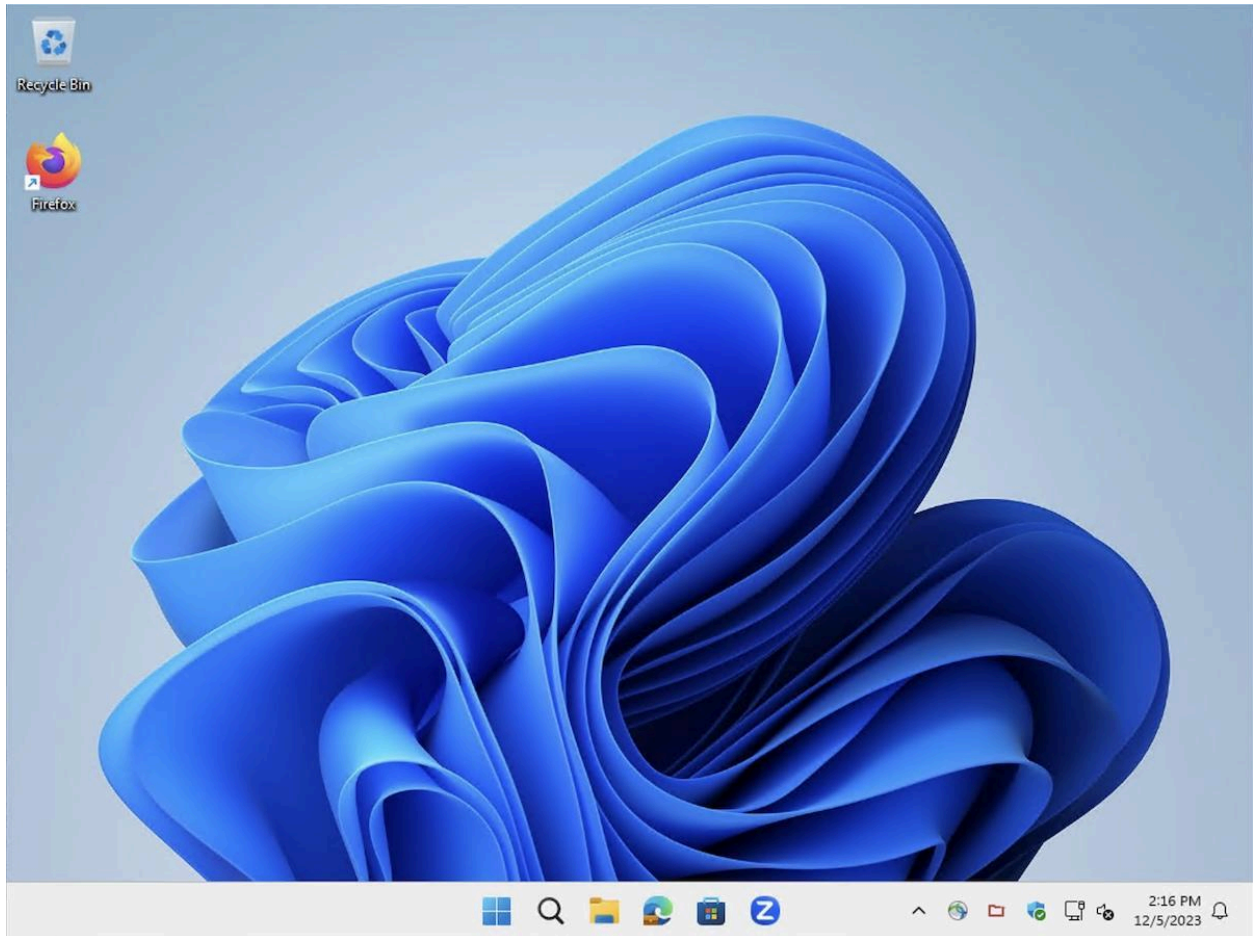


Figure 2: Downloading and installing software in Windows.

Step 2: Run the Benchmark

1. Launch NovaBench.
2. Click **Start Tests**.
3. Wait while the benchmark evaluates:
 - Processor performance
 - Graphics performance
 - Memory speed
 - Storage performance

Suggested Image

Saved Test Results

- ☐ 3882 (now)
- ☐ 3832 (11 days ago)
- ☐ 3869 (12 days ago)
- ☐ 3582 (one month ago)

[Compare Results](#)

Benchmark

3882 (now) X

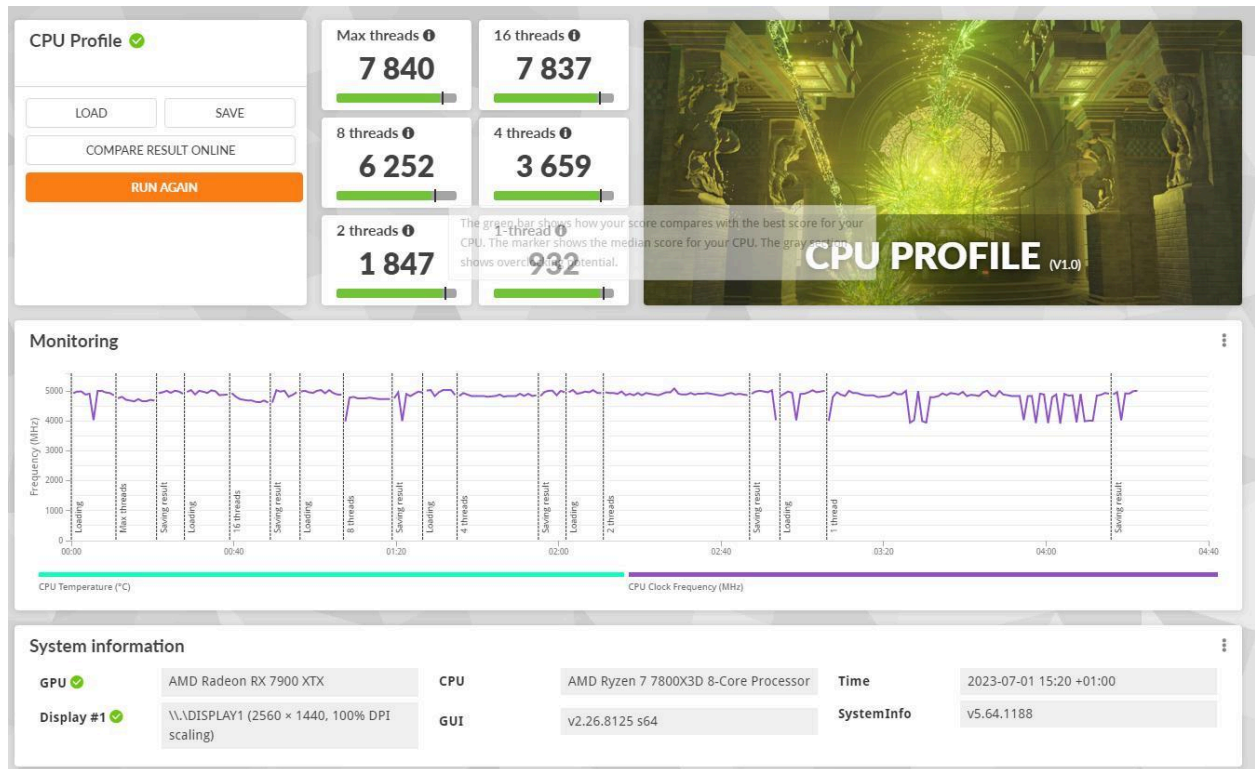
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CPU Benchmark

Architecture: 64-bit

CPU Benchmark measures the performance of CPUs at performing everyday tasks using tests designed to simulate real-world applications. This benchmark takes from 2 to 20 minutes to complete.

Run CPU Benchmark

Compute Benchmark

Compute API: OpenCL

Compute Device: NVIDIA GeForce GTX 1070

Compute Benchmark measures the performance of GPUs at performing common compute tasks (e.g., image processing). This benchmark takes from 2 to 10 minutes to complete.

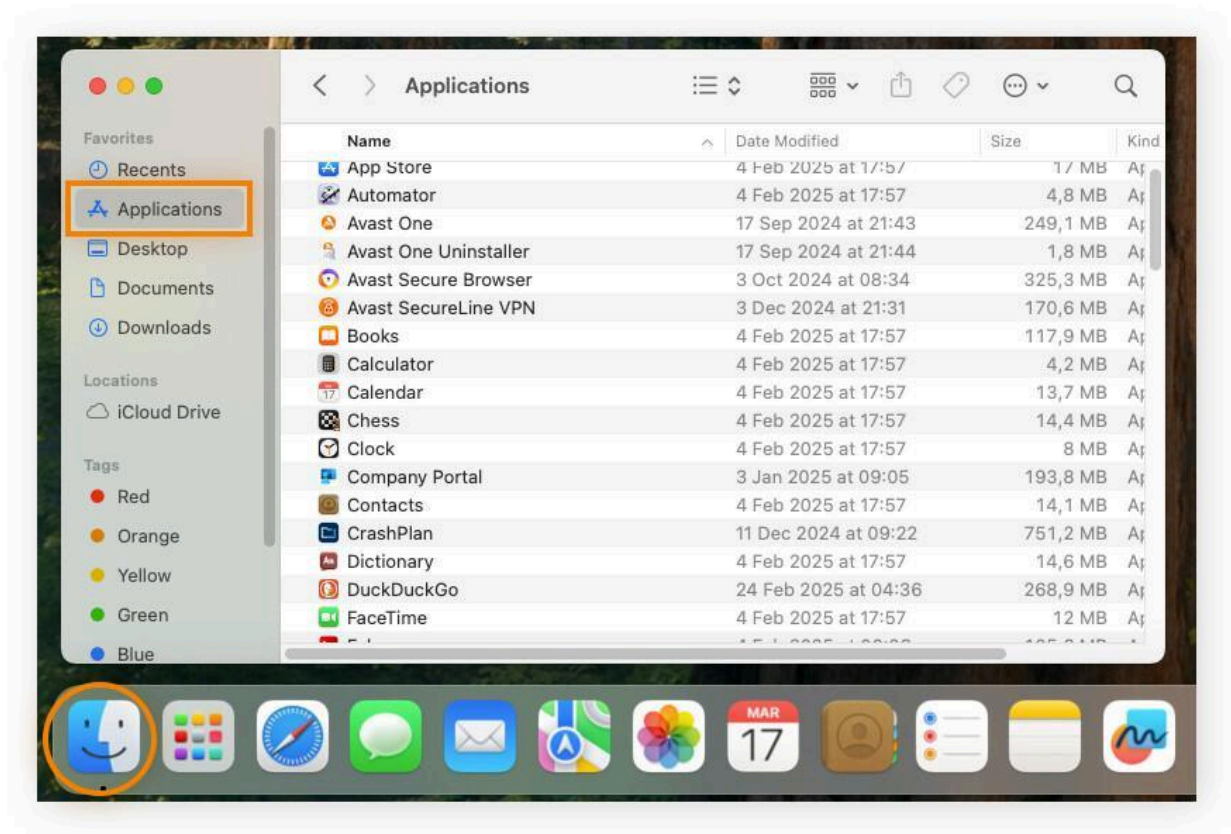
Figure 3: Running a performance benchmark.

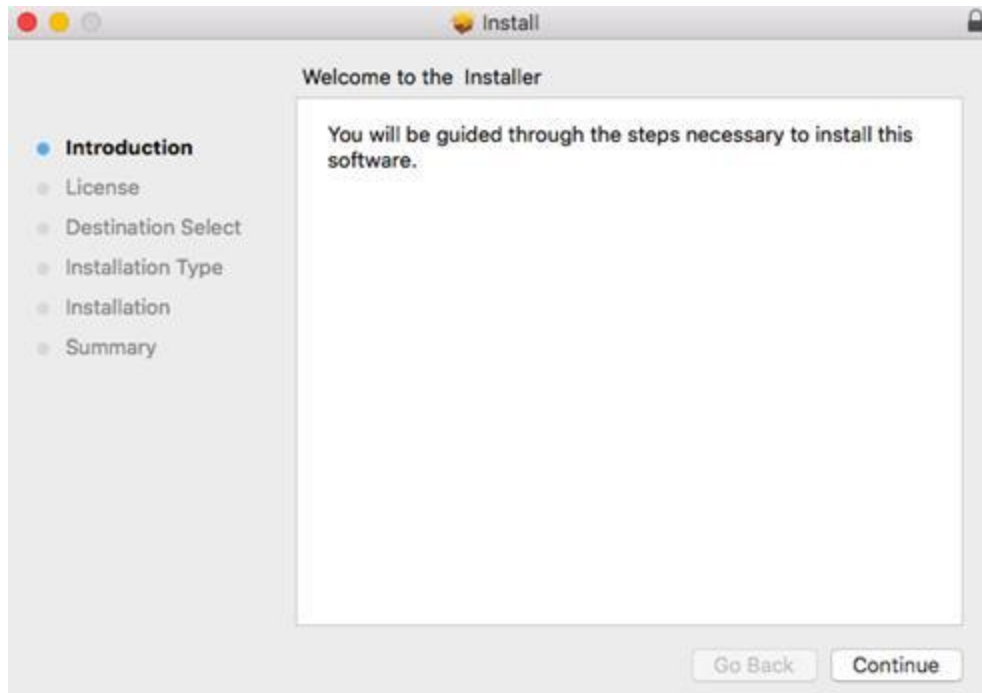
Installing and Running NovaBench on macOS

Step 1: Download and Install

1. Download the macOS version.
2. Open the DMG file.
3. Drag NovaBench to the Applications folder.

Suggested Image







Installer

Installer is trying to install new software.

Enter your password to allow this.

Install Software

Cancel

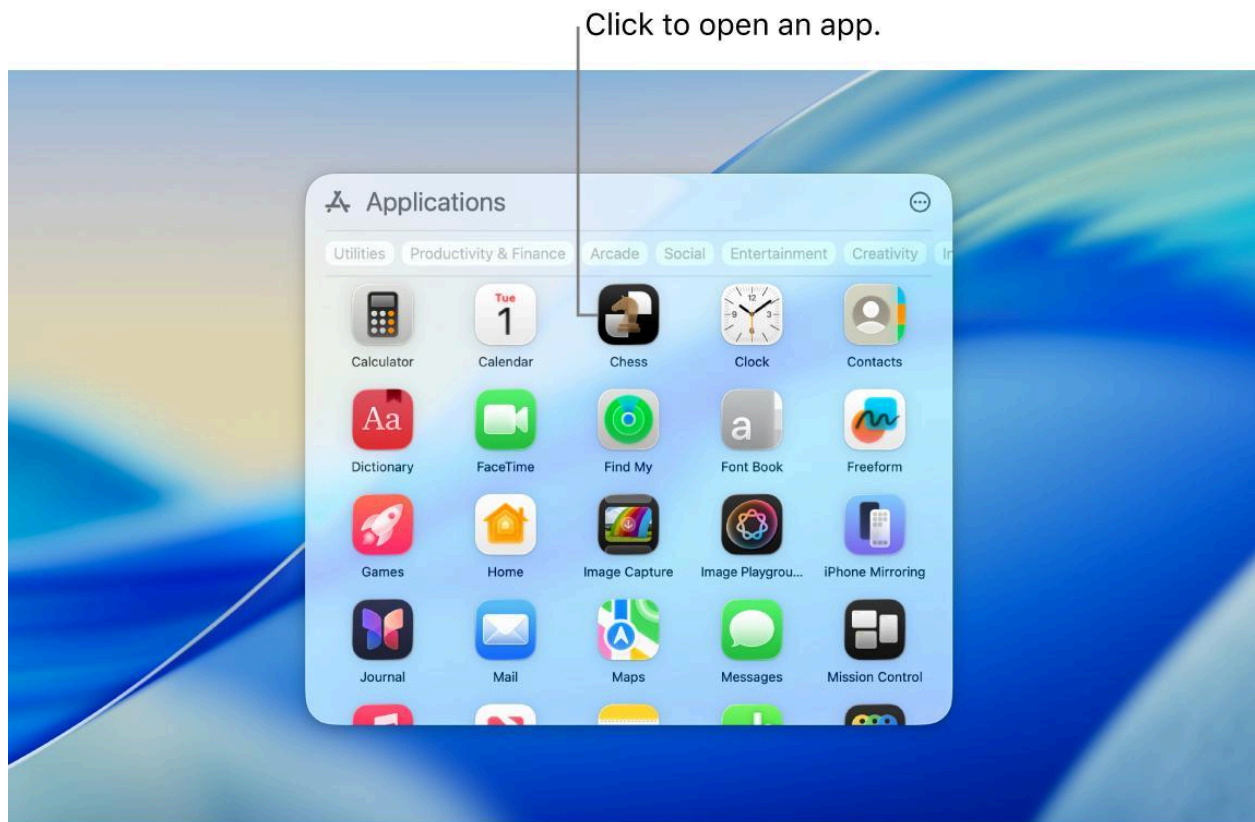


Figure 4: Installing applications on macOS.

Step 2: Execute the Benchmark

1. Launch NovaBench.
2. Click **Start Tests**.
3. Allow the benchmark to complete.

Suggested Image



novabench score

1594

3/13/2024

macOS 14.3.1

Apple Silicon



Overview

Online Comparison



Advisor



Result



Temperature



Efficiency

CPU Score

754

Apple M1

Clock Speed 3.2 GHz

Peak workload

SIMD 933 GFLOPS

Varied workload

Compression 628 MB/s

Cryptography 7067 MH/s

GPU Score

122

Apple M1

Workload

Metal 3D 22 FPS

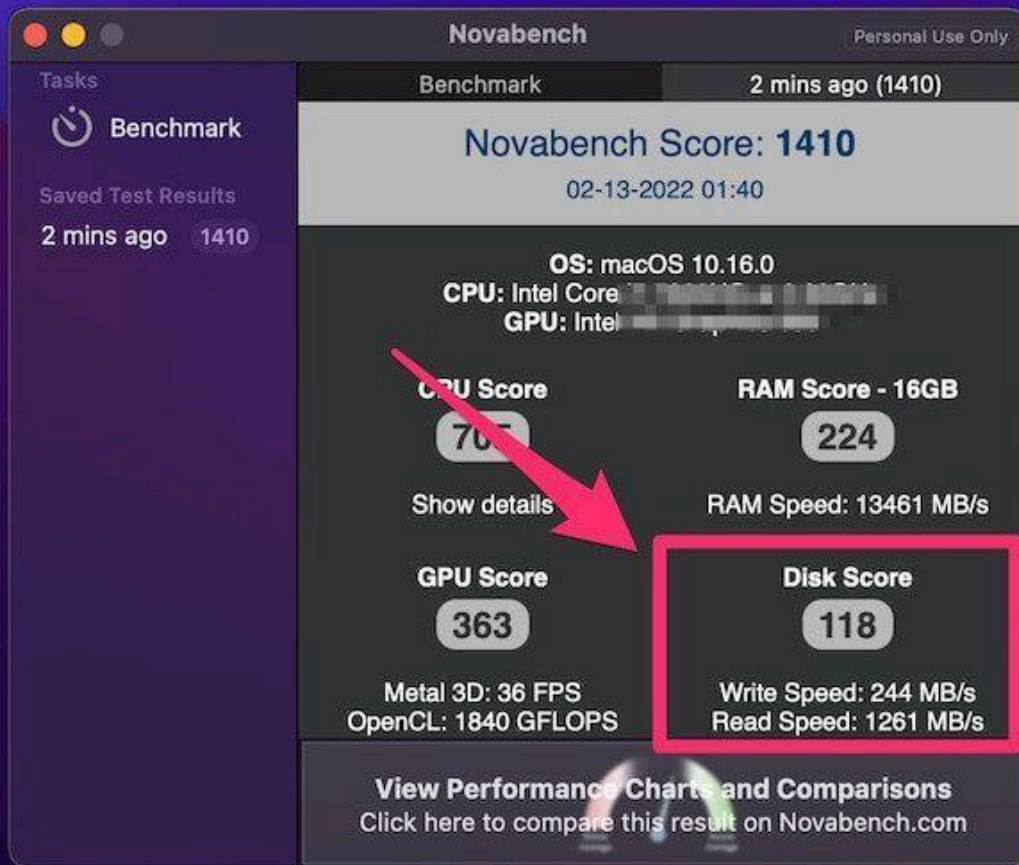
Compute 2450 GFLOPS

Memory transfer

On-device 52563 MB/s

Host to device 50307 MB/s

View details →



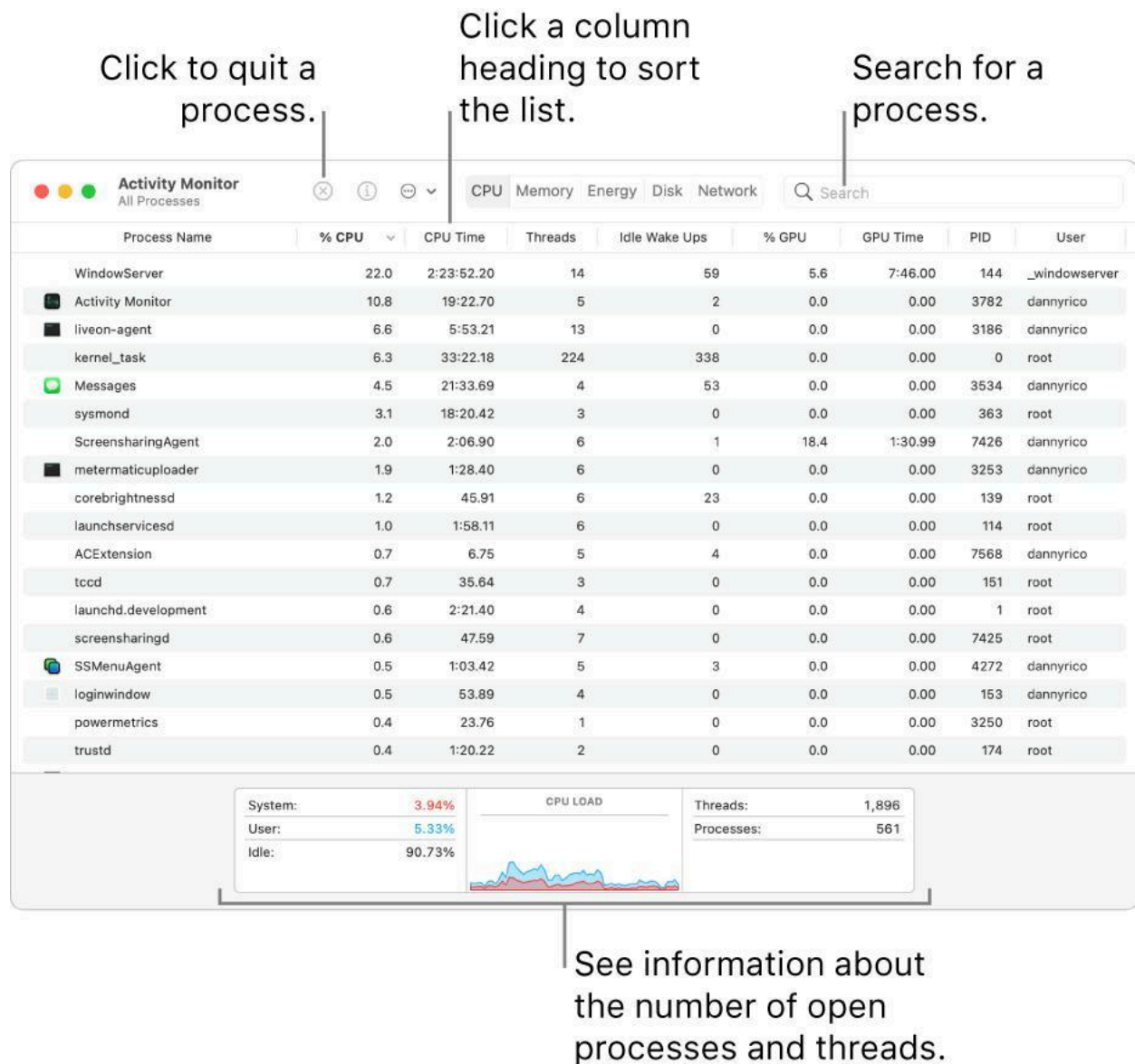


Figure 5: Benchmarking a Mac computer.

Installing and Running NovaBench on Linux

Step 1: Install NovaBench

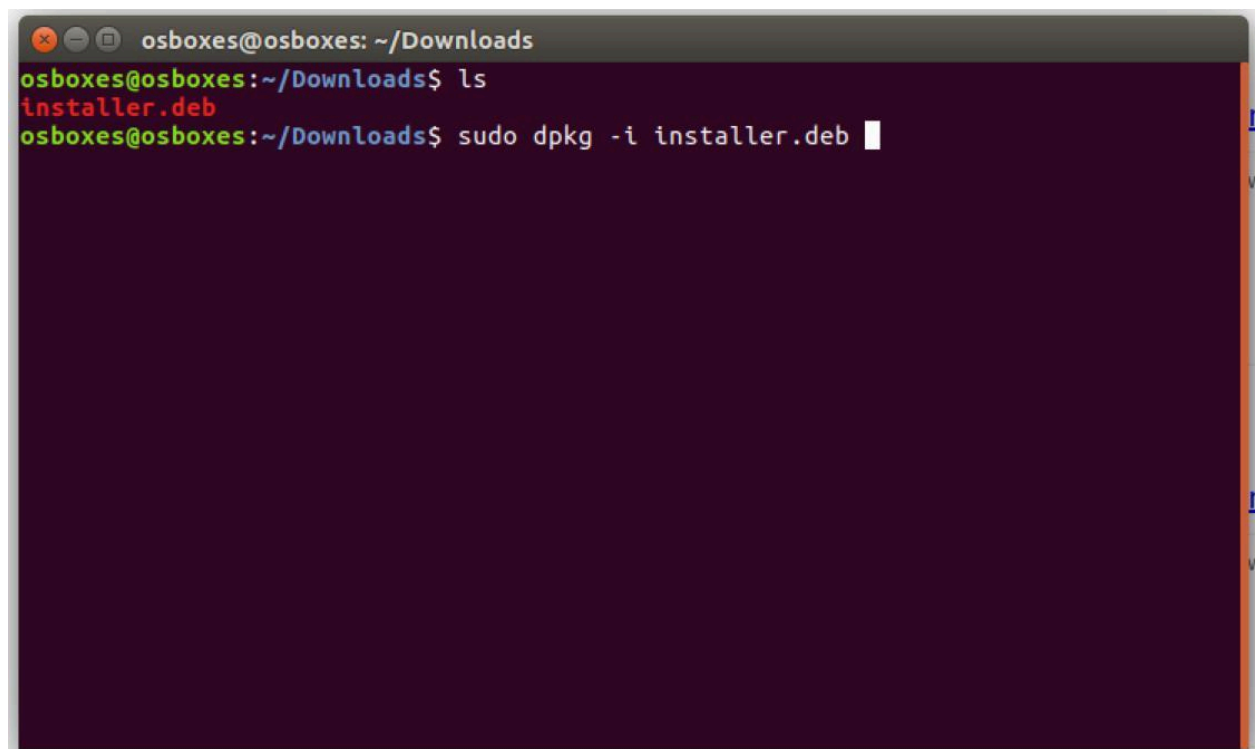
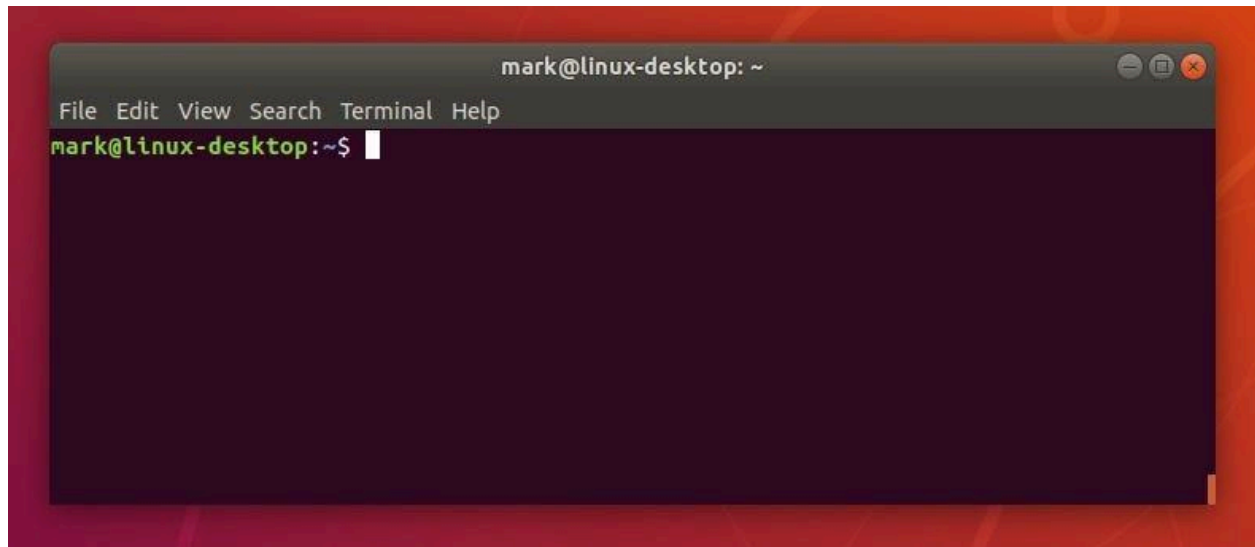
For Ubuntu or Debian:

```
sudo dpkg -i novabench.deb
sudo apt-get install -f
```

For Fedora:

```
sudo rpm -i novabench.rpm
```

Suggested Image



terminal



Terminal

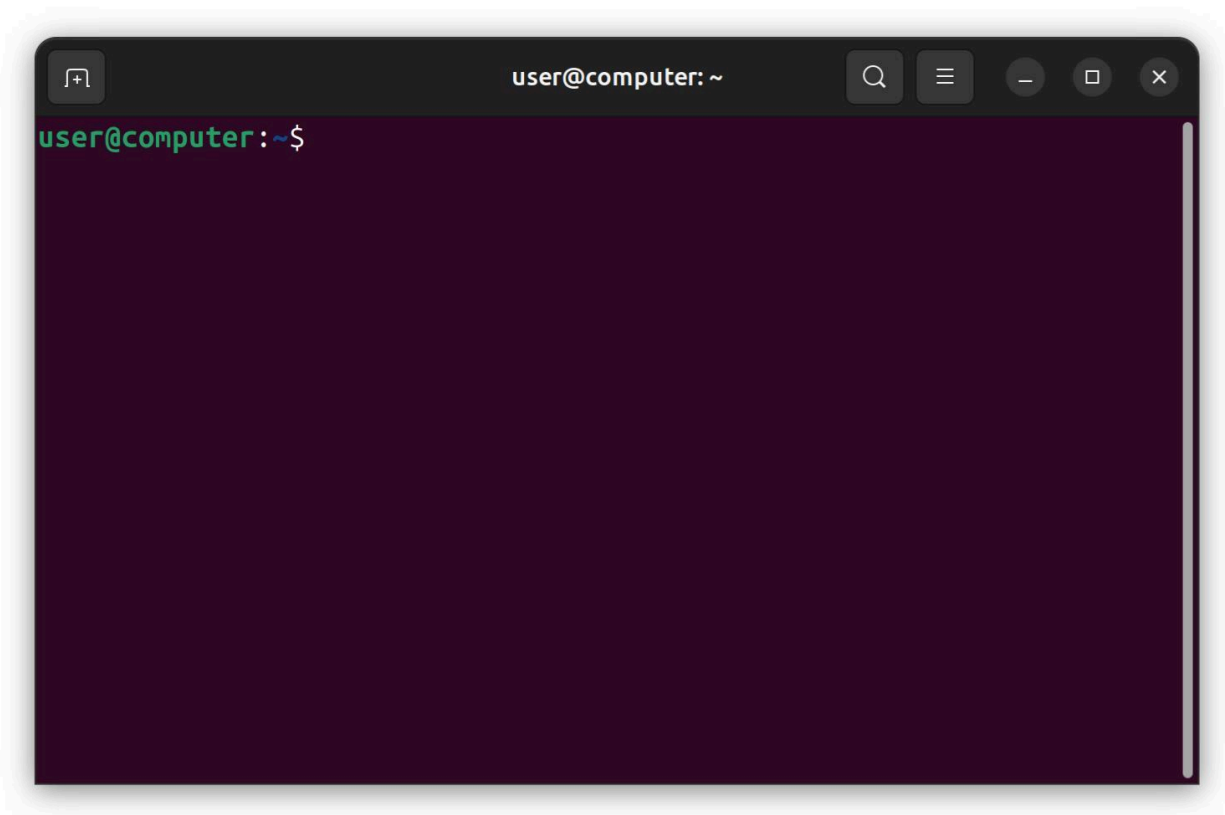


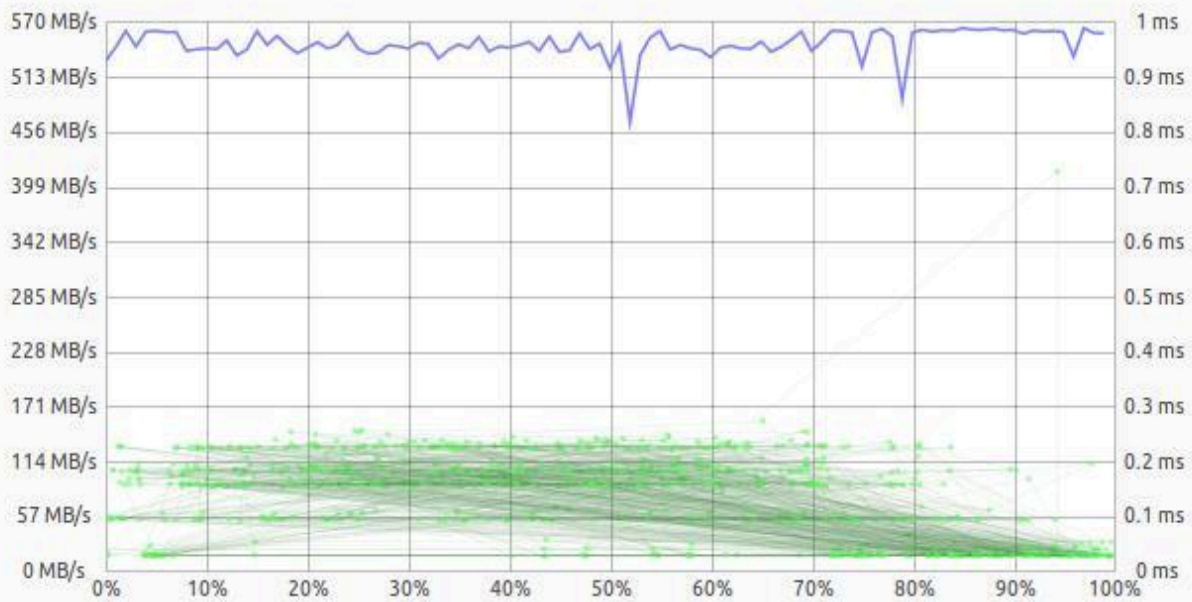
Figure 6: Installing software in Linux.

Step 2: Run the Benchmark

Launch NovaBench from the application menu or terminal.

Suggested Image

Benchmark



Disk or Device 480 GB Disk — (/dev/sdb)

Last Benchmarked Sat 16 Apr 2022 10:59:34 CET (Less than a minute ago)

Sample Size 10.0 MiB (10,485,760 bytes)

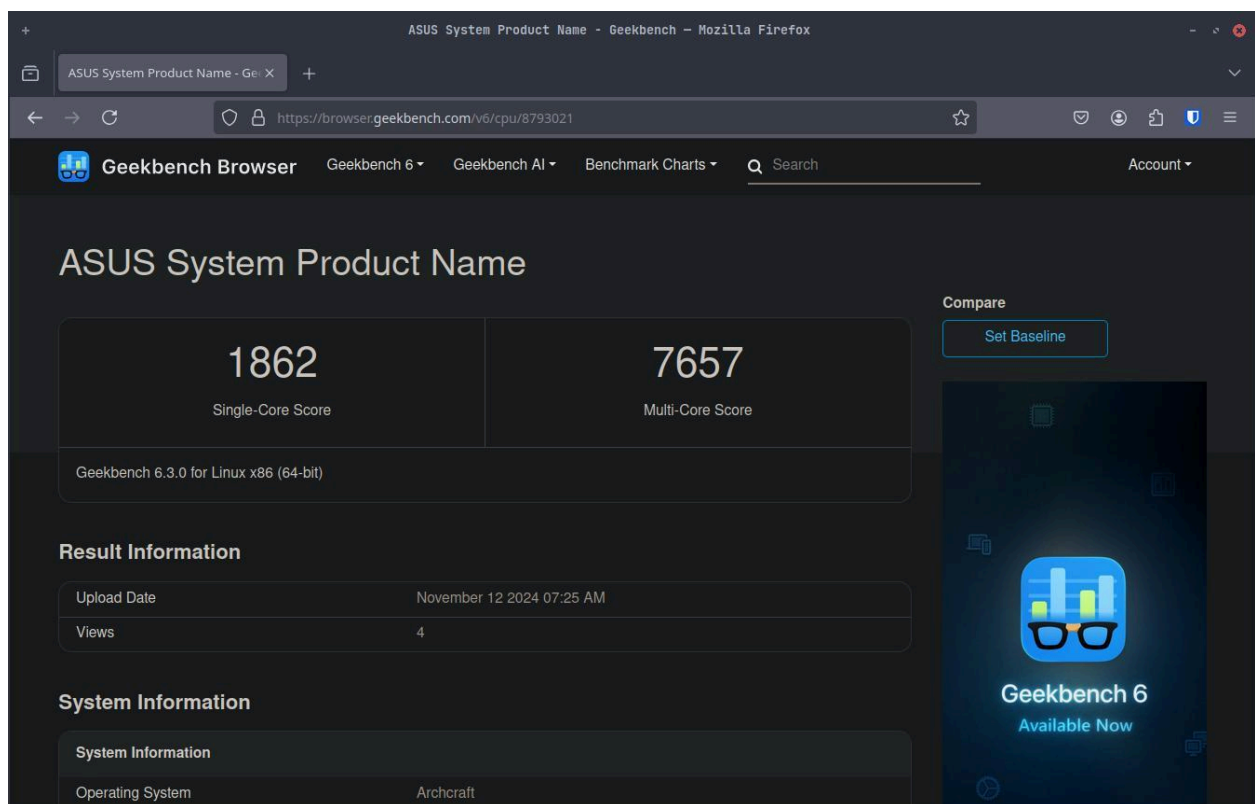
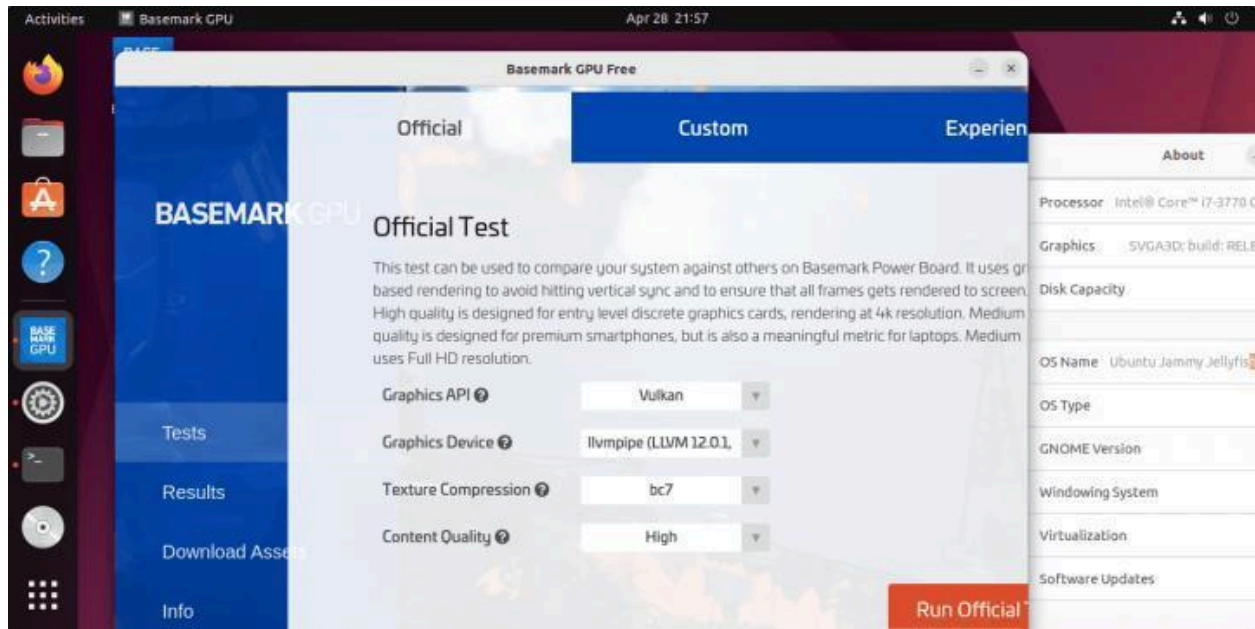
Average Read Rate 546.6 MB/s (100 samples)

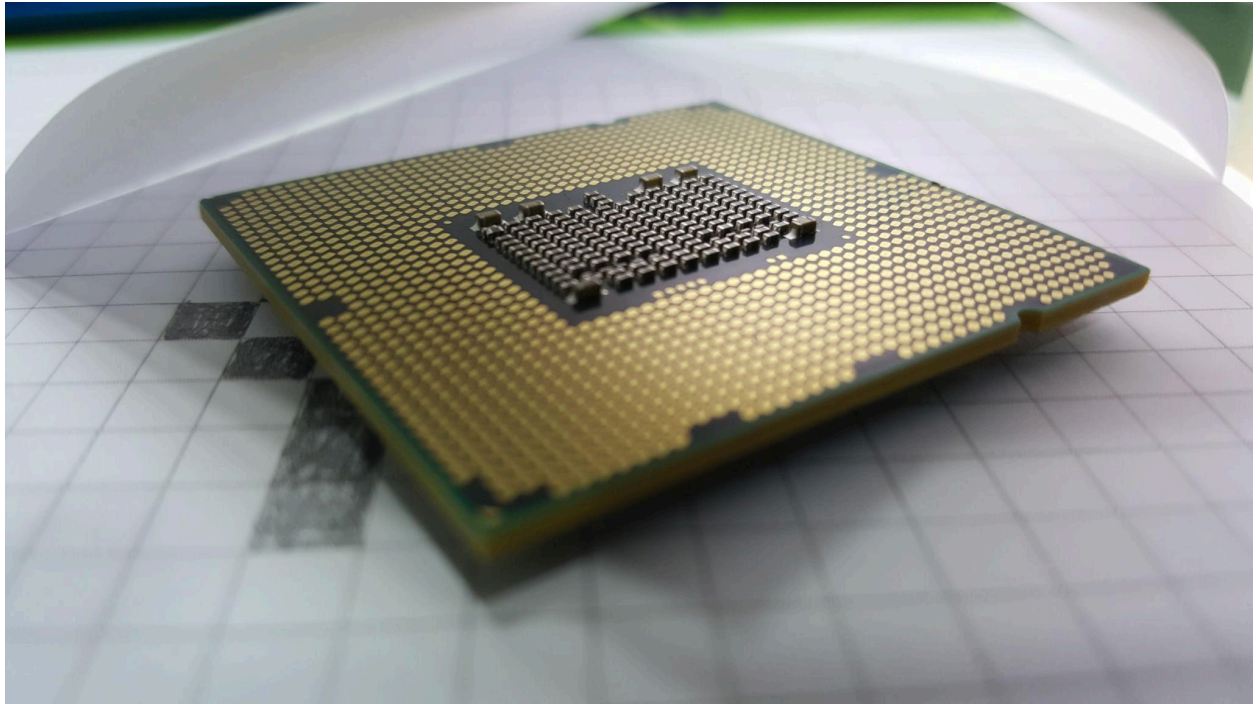
Average Write Rate —

Average Access Time 0.13 msec (1000 samples)

Start Benchmark...

Close





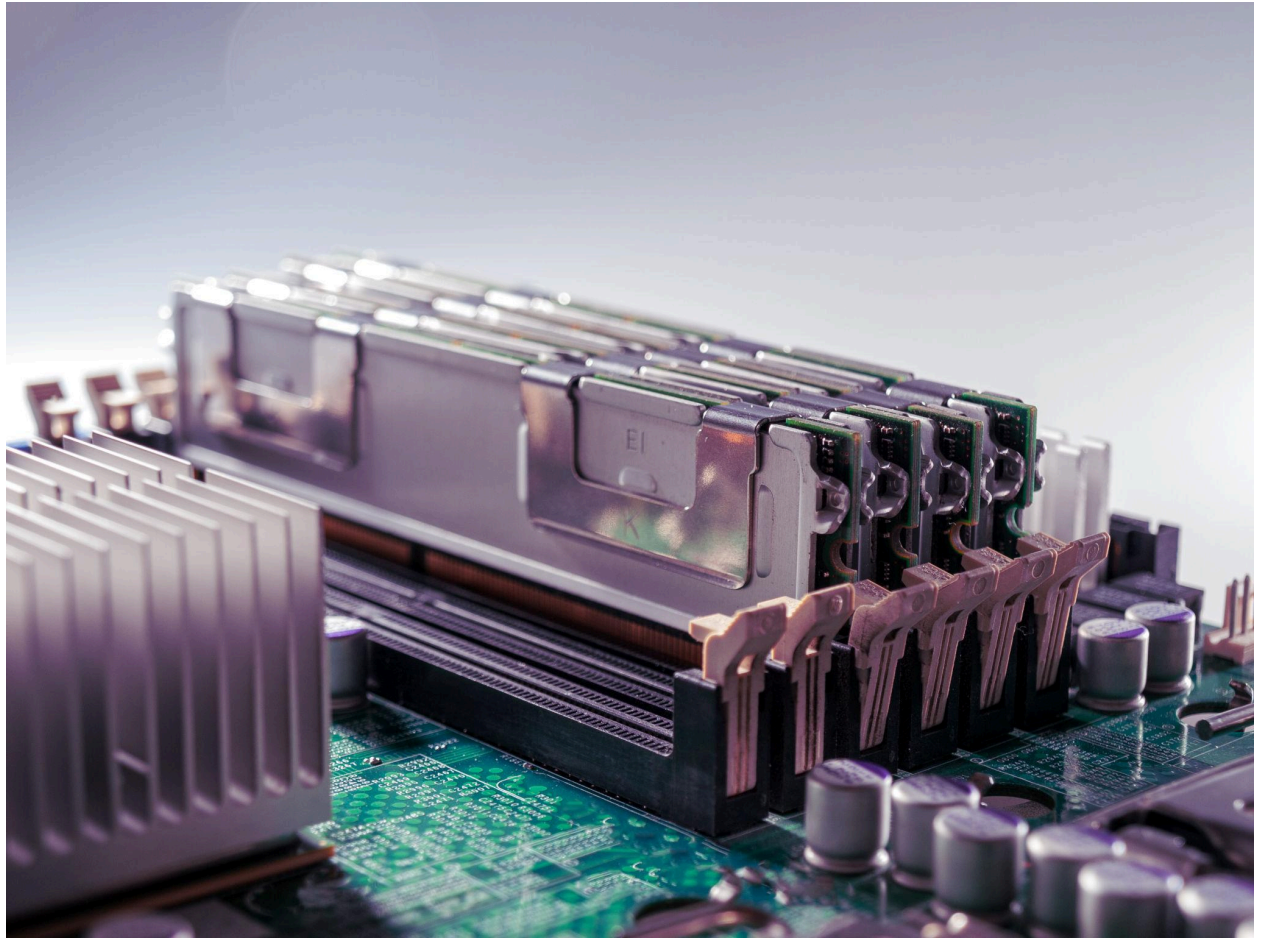




Figure 8: Major computer components tested by NovaBench.

Troubleshooting

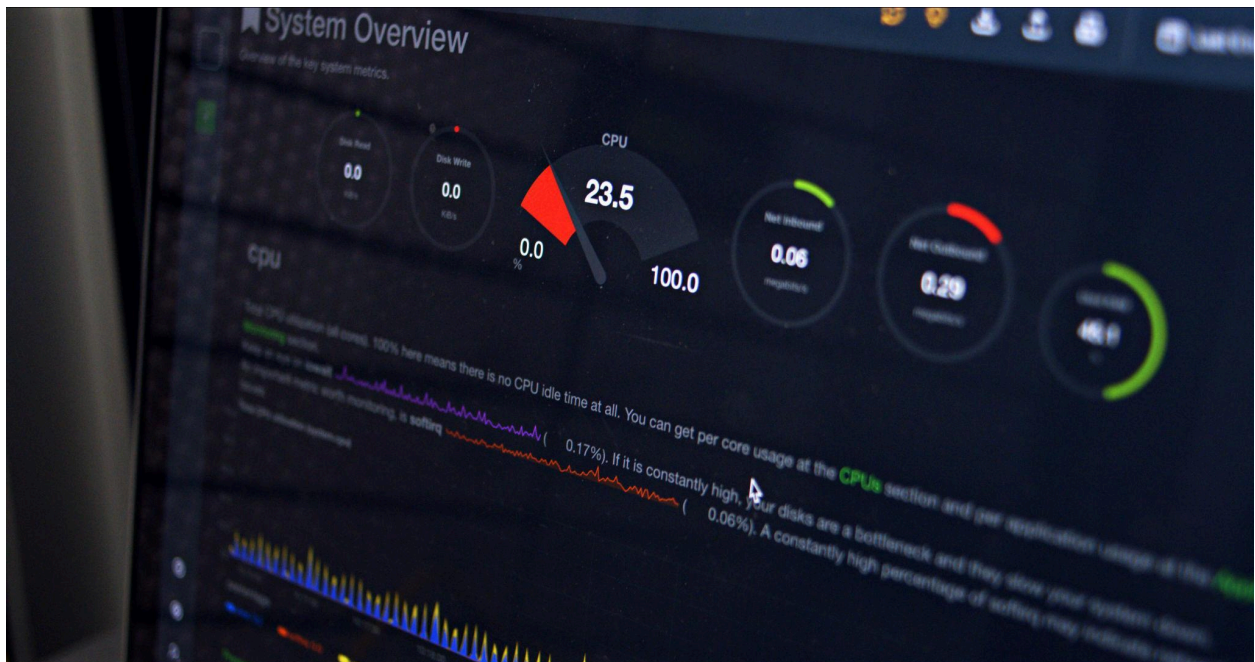
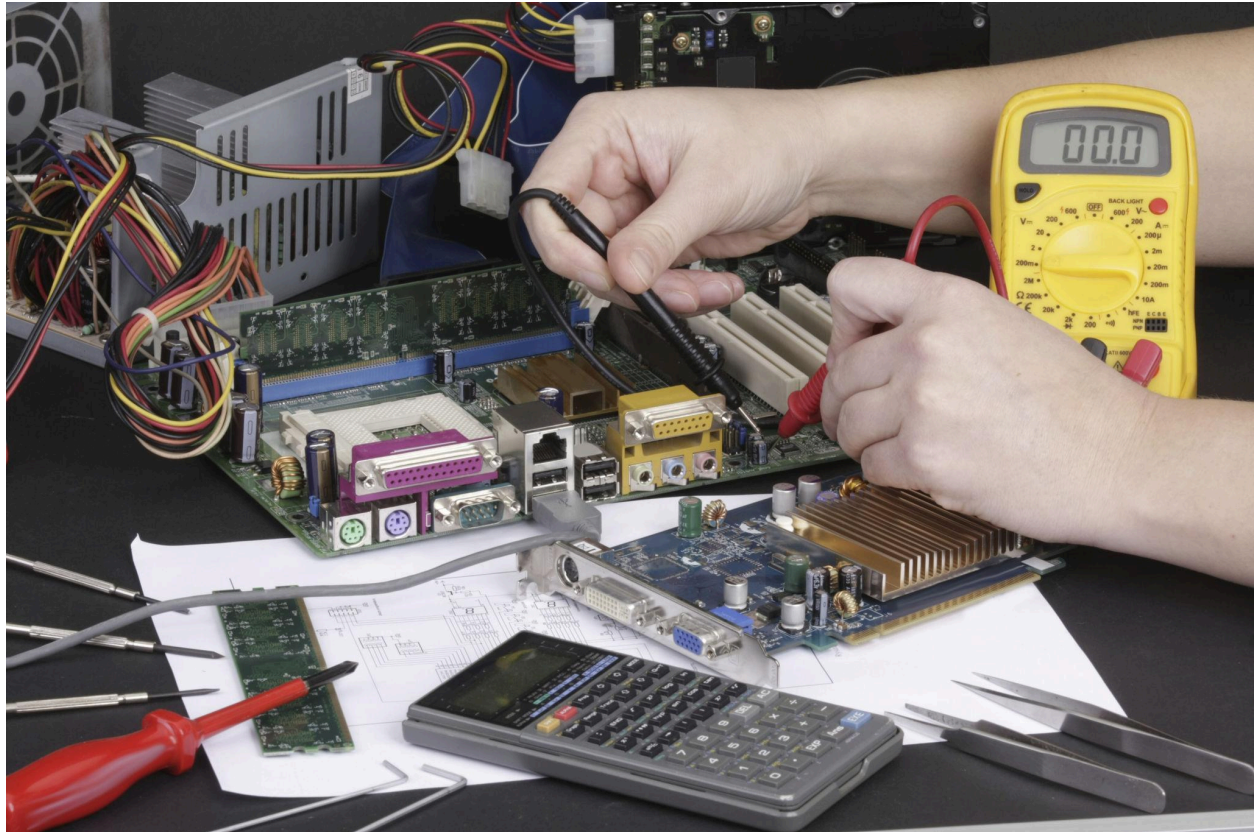
Common issues include:

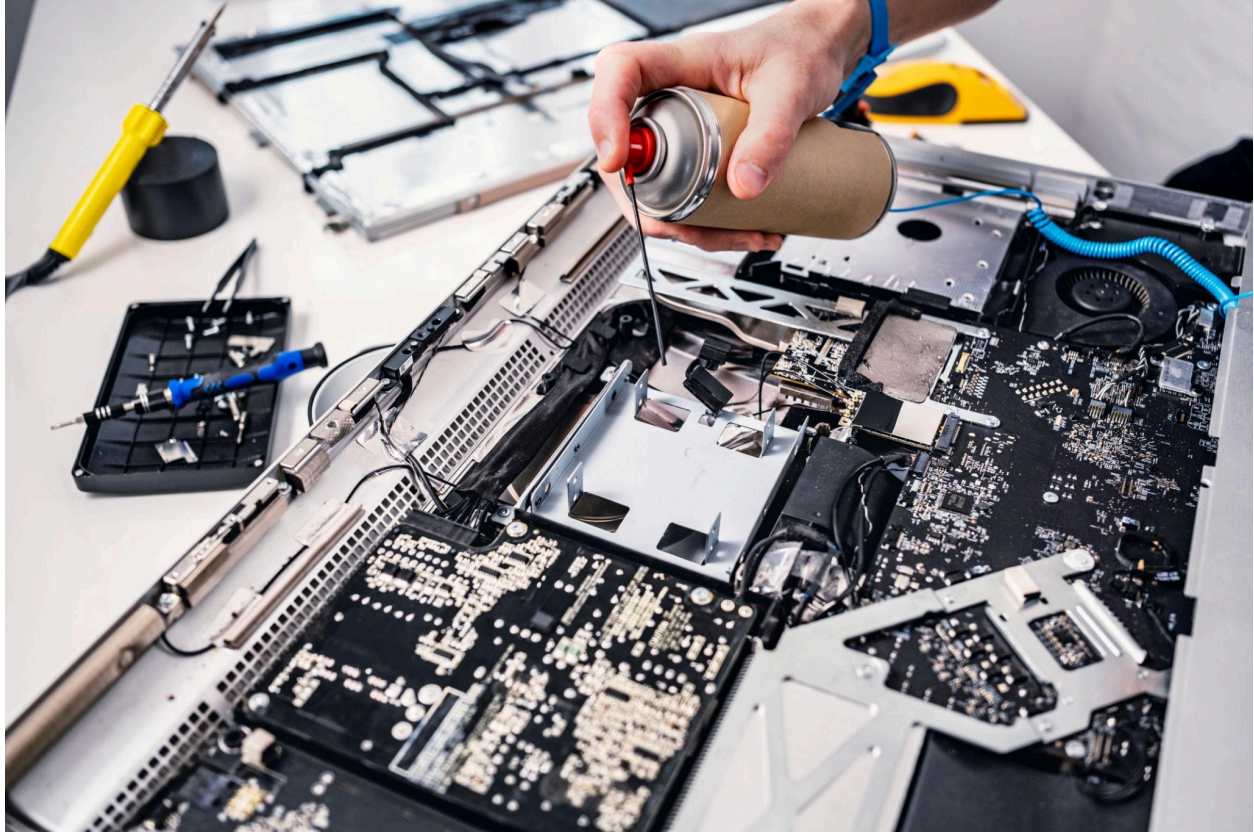
- Low benchmark scores
- Background applications consuming resources

- Outdated drivers
- Thermal throttling due to overheating
- Insufficient free storage space

Suggested Image







 **SupportAssist**

Home Troubleshooting History Get Support

Service Tag:  Profile 

What would you like to do?

Find out how to change settings on your PC, like email accounts and software updates, or troubleshoot common issues.

▼ Help me set up my PC

^ I want to troubleshoot my PC

I want to check a specific piece of hardware

We may open additional utilities or windows to help determine the health of your hardware.

Made hardware changes recently? [Refresh hardware list.](#)

Audio Devices

 [Microphone](#)

 [Sound Card](#)

 [Sound Card](#)

 [Sound Card](#)

 [Sound Card](#)

Camera Devices

 [Camera](#)

Communication Devices

 [Network Card](#)

 [Network Card](#)

 [Bluetooth Port](#)

How-to Videos

Resolve more PC issues or perform simple tasks like replacing your laptop battery or removing your hard drive with the help of video tutorials.

- [Operating System](#)
- [Hardware Problems](#)
- [Software Issues](#)
- [Internet Problems](#)

*Videos in English only

Computer maintenance checklist

Daily

- ☐ Install software updates
- ☐ Prevent physical damage
- ☐ Back up files

Weekly

- ☐ Dust your keyboard
- ☐ Wipe down your monitor
- ☐ Clean your mouse
- ☐ Run a scan for malware
- ☐ Update any antivirus softwares
- ☐ Empty the recycling bin
- ☐ Delete any temporary files

Monthly

- ☐ Clean your hardware system
- ☐ Remove excess programs
- ☐ Clear computer ports
- ☐ Defrag hard drive

Quarterly or bi-annually

- ☐ Optimize startup processes
- ☐ Review firewall settings
- ☐ Check parental control settings
- ☐ Change passwords

Figure 9: Monitoring and troubleshooting computer performance.

Conclusion

NovaBench provides an easy way to evaluate and compare system performance on Windows, macOS, and Linux. Regular benchmarking can help identify performance issues, monitor hardware health, and measure the impact of upgrades over time.