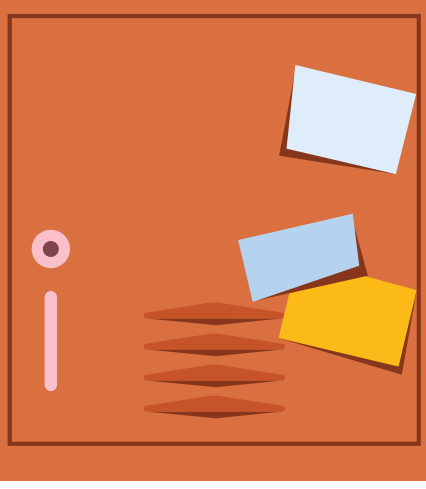
No SSDs? No problem.

When performing classroom tasks on two pairs of Windows 11 Pro laptops, PT performance engineers saw comparable performance on devices with SSDs and devices with UFS

To assess what performance differences, if any, educators and students might see by choosing devices with UFS rather than SSDs, we timed how long it took to perform several everyday classroom tasks on two pairs of systems running Windows 11 Pro. In each pair, one had UFS and one had an SSD; otherwise, the two systems were identical.

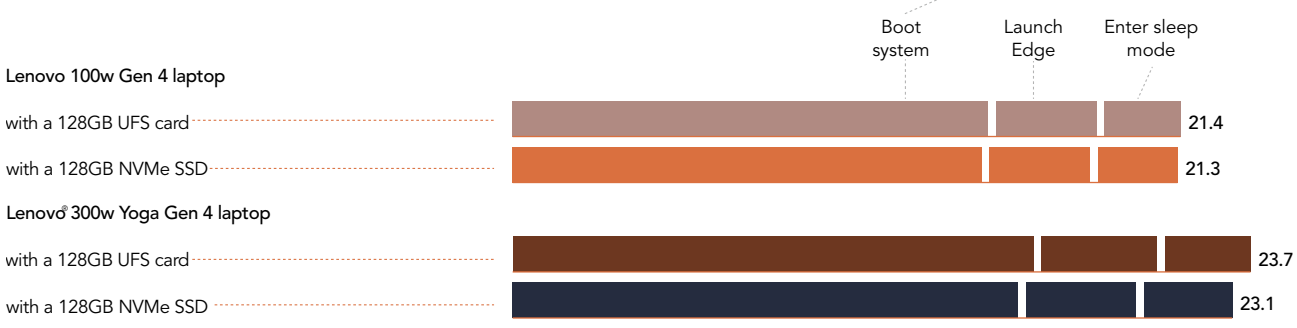


The sooner students can focus on their coursework, the better. The same is true for teachers and administrative staff as they plan lessons, complete paperwork, and discuss assignments in the classroom. If systems lag behind during **day-to-day tasks**, users may have a larger window for distractions.

Less than **0.5 sec** slower
100w: 15.6 vs 15.4
300w: 17.1 vs 16.6

Time to complete day-to-day tasks

Seconds | Lower is better



Students and education professionals who use **Microsoft Word** and **Microsoft Excel**—to write essays, read assignments, track data, perform calculations, and more—may work with these apps every day.

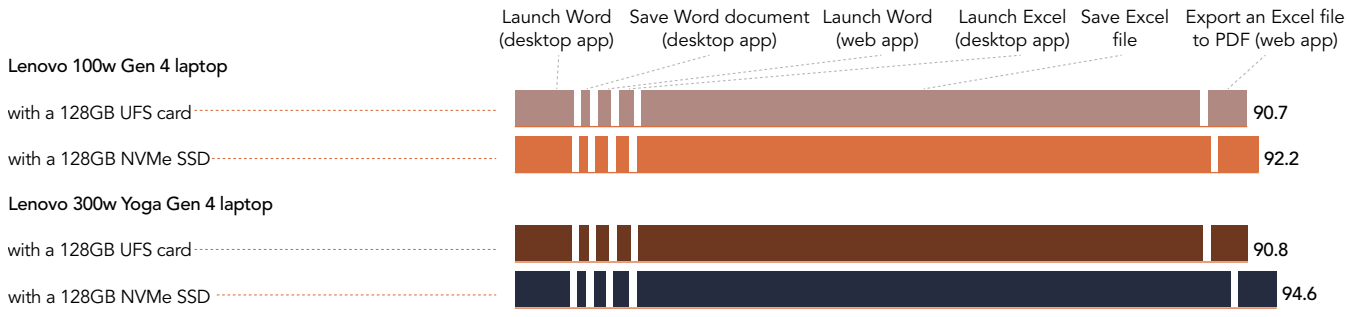
Less than **0.3 sec** slower
100w: 7.7 vs 7.4
300w: 7.4 vs 7.2

Less than **0.2 sec** slower
100w: 1.9 vs 1.7
300w: 1.8 vs 2.0

Up to **3.8 sec** faster
100w: 73.2 vs 75.0
300w: 74.0 vs 77.8

Time to complete tasks in Microsoft 365 apps

Seconds | Lower is better

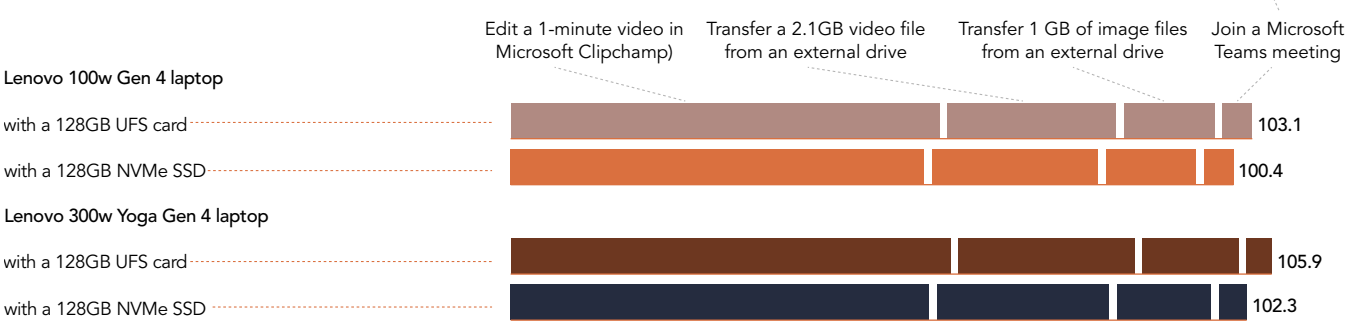


What about more **resource-hungry tasks**? Students completing media projects and staff members using audio-visual support may need to work with videos and pictures, while virtual classrooms and hybrid meetings rely on videoconferencing software. If these tasks take longer, users may lose focus and valuable time they could spend elsewhere.

Up to **0.4 sec** faster
100w: 4.3 vs 4.3
300w: 3.6 vs 4.0

Time to complete resource-intensive tasks

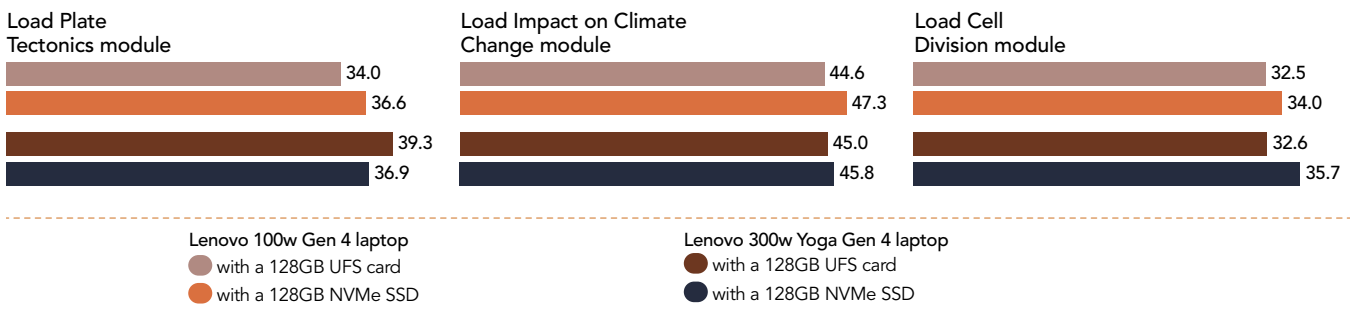
Seconds | Lower is better



Labster provides STEM learners over 300 virtual science lab simulations. These immersive, 3D experiences cover topics ranging from basic laboratory skills to microbiology to physics to environmental sciences.

Time to complete Labster tasks

Seconds | Lower is better



Choosing UFS for education devices doesn't have to mean a downgrade in performance: Our results indicate a consistent experience for learners and educators in a variety of scenarios, regardless of storage choice.

Learn more at **https://facts.pt/ytFHr8v**

Principled Technologies®

Third party testing performed by Principled Technologies.