

In our tests, a Dell Latitude 5450 AI PC powered by an Intel Core Ultra 5 processor 135U provided faster performance and greater system efficiency than its legacy counterpart

Advanced processor technology for an improved user experience

Latitude AI PCs are powered by Intel® Core™ Ultra processors, with integrated central processing unit (CPU), graphics processing unit (GPU), and neural processing unit (NPU) components.

CPU is optimal for AI tasks that are time sensitive, such as identifying incoming mail as spam or speech-totext translation.

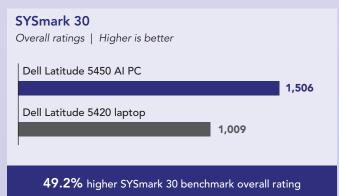
GPU is best for Al-enhanced content creation and datafiltering tasks, including media, 3D, and rendering use cases.

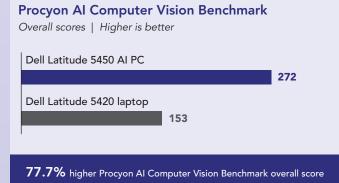
NPU is great for Al-based tasks such as facial or fingerprint recognition, and blurring backgrounds during video-conferencing meetings.

Refresh for higher system performance

SYSmark 30 uses real applications and simulated user input to measure the response times of businessoriented workflows, media-centric tasks, and multitasking.1

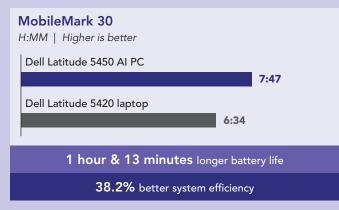
The Procyon Al Computer Vision Benchmark provides insights into how well on-device AI inference engines can tackle computer vision scanning and identification activities such as language translation, facial and object recognition, inventory management, and medical imaging.^{2,3}

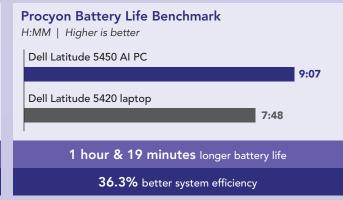




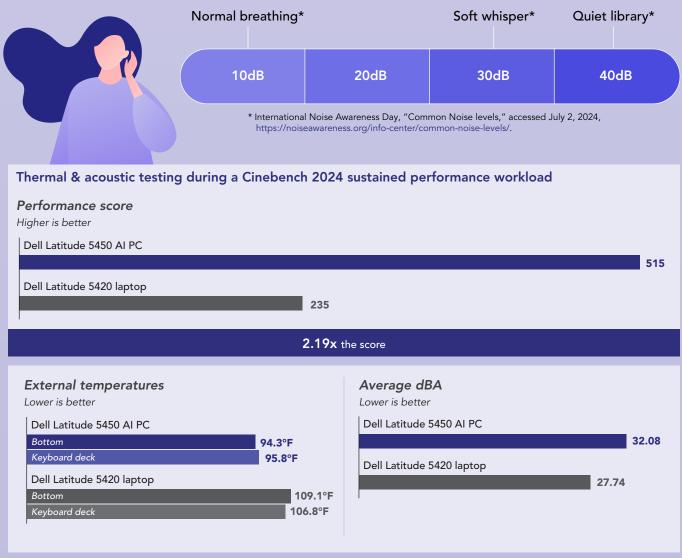
Refresh for greater system efficiency

To measure general-use battery life, we ran MobileMark 30 and Procyon Battery Life Benchmark tests, which use real-world applications to gauge battery life in office productivity and video playback situations.^{4,5}





While the Latitude 5450 AI PC was slightly louder than the Latitude 5240 we tested, the 5450 AI PC delivered more than twice the Cinebench 2024 performance of its predecessor. Even better, they were both still whisperquiet under load.



The Cinebench 2024 benchmark is a CPU- and GPU-intensive media-rendering benchmark. We consider it a stand-in for resource-intensive applications and processes, such as security scans, scientific simulations, and video-conferencing calls with shared screens, which can make an under-powered laptop run hot to the touch or

BAPCo, "SYSmark 30 whitepaper," accessed August 12, 2024, https://bapco.com/wp-content/uploads/2024/03/bapco.sysmark. 30. white paper. v1.1.pdf.

roar with fan noise during operation.

- UL Solutions, "UL Procyon Al Computer Vision Benchmark," accessed August 12, 2024, https://benchmarks.ul.com/procyon/ai-inference-benchmark-for-windows.
- Jye Sawtell-Rickson, "What is Computer Vision?" accessed August 12, 2024, https://builtin.com/machine-learning/computer-vision.
- 4 BAPCo, "MobileMark 30," accessed July 12, 2024, https://store.bapco.com/product/mobilemark-30/.
- UL Solutions, "Overview of U: Procyon Battery Life Benchmark," accessed July 1, 2024, https://support.benchmarks.ul.com/support/solutions/articles/44002347112-overview-of-ul-procyon-battery-lifebenchmark.



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