Lenovo Workstations: Optimising Workflows

Extreme performance for demanding tasks

The modern workplace is built around PCs. But despite growing in power and shrinking in size at a phenomenal rate, their CPUs and graphical resources can't always keep up with the increasing demands of today's software.

Workstations are different. They're designed to tackle the most challenging workflows and keep operations running smoothly. They can run multiple office applications like dataheavy spreadsheets, presentations and video conferences, simultaneously, with no performance issues, increased productivity and better user experiences. This is what we call a Power Office workflow.

Workflows before **Workstations**







of any operating system to date, with 30% more CPU power needed than for Windows 7. **GPU requirement increase** Similarly, the GPU resources

Application graphical resource requirements have doubled

since 2012. Windows 10 has the highest graphics requirement

used by today's most popular applications is rising sharply year on year: Even contemporary consumer-grade

office software, web browsers and operating systems can overwhelm some PCs. And with many organisations adopting increasingly digital workflows, many users need to run multiple power-hungry applications simultaneously to get the job done. In this situation, moving to an entry-level Workstation can add real value to your workflows.

2017 2018

| 36% | 49% | Chrome |
|------|------|------------|
| 53% | 75% | Excel |
| 59% | 66% | Firefox |
| 64% | 91% | PowerPoint |
| 85% | 98% | Outlook |
| 409% | 482% | Skype |
| | | |

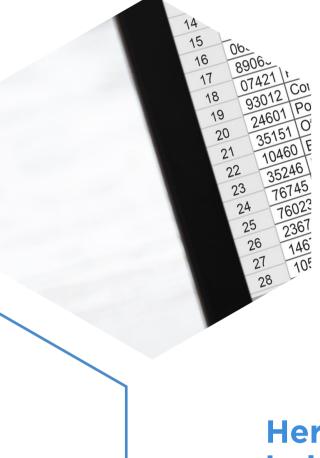
IT transformation isn't about just upgrading tech and buying new devices. It's about analysing your existing workflows,

perfect balance

Striking the

looking at the relationship between your software and hardware, and identifying where more power is needed. We'll analyse your workflows and determine whether you have the right devices to meet your business objectives.

If we discover that hardware improvements could optimise your workflows, drive greater efficiency or improve user experiences, we'll find the right Workstation for the job.









Managing complex workflows can be Microsoft Office applications, difficult for PCs, as they often don't have from Office 2016 onwards, now enough Random-Access Memory (RAM) support hardware graphics acceleration.

to run multiple applications smoothly. When large amounts of data passes

Powerful components

between the CPU and other components in a PC with insufficient RAM, information can become bottlenecked, causing workflows to break down. Storage is also a key component to consider when looking to optimise workflows. Lenovo Workstations typically utilise NVMe (Non-Volatile Memory Express) SSDs to help the

speeding up how quickly data can be accessed and further improving performance.

system's CPU communicate more

quickly with the storage interface,

to your workflows. Especially when you're trying to multitask. Analysing employee workflows and balancing components like this is how you ensure better end-user experiences. Lenovo Workstations users can even go one step further, introducing additional software tools to fully optimise IT assets and boost productivity by up to 23% for their Power Office workflows.1

Adding an entry-level graphics card to

your machine and enabling this feature

can offer a significant **performance boost**

¹PCMark 10 Accelerated Workflow benchmark



Lenovo Performance Tuner

Use the Lenovo Performance Tuner to:

By allowing users to adjust system resources and direct power where it's needed, this free plug-and-play tool ensures a constant balance between hardware and software.

Eliminate interruption: Prevent bottlenecks: Give demanding applications Carve out resources for dedicated CPU resources, heavy workloads, like

and enjoy seriously

fast workflows

multi-threaded applications,

and allow your Workstation

to continue functioning as

normal while producing

videos or simulations



NVIDIA Control Panel

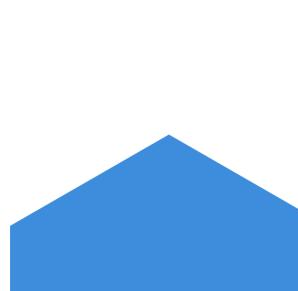


Maintain control

monitor resources

Customise applications,

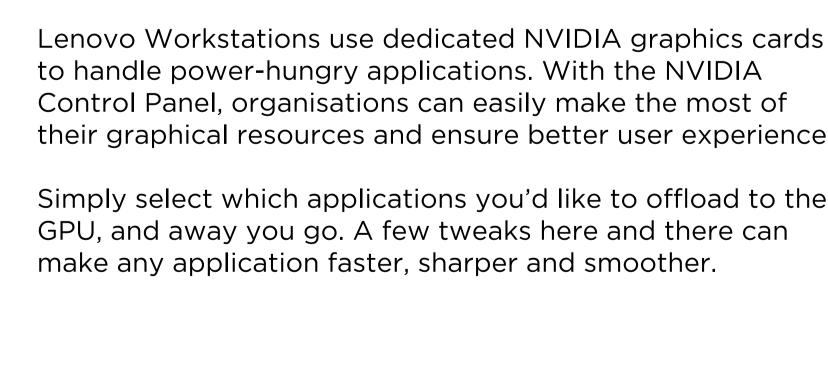
and flexibility:

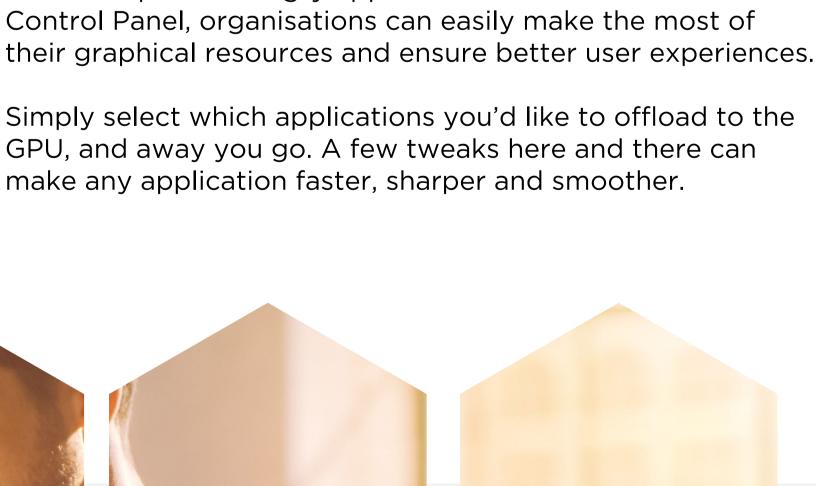


maintain greater admin control,

lock application profiles and









The Workstation difference Let's look at a typical scenario where a user crunching big numbers, or working with demanding software, would benefit from upgrading their PC to a Lenovo Workstation.



The company recognises the issue and upgrades Gary's PC to a Lenovo ThinkPad P43s, which instantly increases Gary's productivity by 23% for approximately £100.2

He earns £50,000 a year and

It has the same specifications

as a Workstation aside from

GPU graphics.

uses a standard notebook.

Gary's new Workstation has paid for itself in just **two** weeks.

with large data sets, which often causes the computer to slow down and freeze. This

by 5%, costing his employer £2,500 every year.

While his notebook can just

reduces Gary's productivity

about do the job, Gary works

Core™ and Intel® Xeon® processors and coupled with NVIDIA®'s ISV-certified **Quadro**® graphics cards, are designed from the ground up for reliability, with the lowest Could moving from a PC to a Workstation

help to boost your users' productivity by up

to 23%? Speak to our team today and we'll

Lenovo Workstations, powered by Intel®

help you find out. To get the conversation going, email Liz Helstrom: lhelstrom@lenovo.com

Get in touch