HOW IGEL OS COMPARES TO MICROSOFT WINDOWS AT THE ENDPOINT RAWWORKS PERFORMANCE RESEARCH.

The use of cloud-delivered digital workspaces continues to grow, fueled by Citrix, VMware, Microsoft, and AWS, enabling greater flexibility for organizations to select from a multi-platform infrastructure to gain anytime, anywhere remote access for their end-users. Propelled by the pandemic, cloud-delivered digital workspace solutions were a lifeline for many businesses to remain buoyant during that turbulent time. Post-pandemic, employees are expressing a strong preference to remain in a flexible, work-from-anywhere model using a variety of devices, while expecting the same user experience. This, and the chip shortages facing the industry with recovery not expected until 2023, is fueling the need for organizations to repurpose and optimize existing hardware to enable continued, productive access to VDI and cloud workspaces.

Virtual desktops are now common, especially in healthcare, finance, government, retail, higher education, and manufacturing, resulting in a diverse ecosystem of endpoint devices, peripherals, and solutions in use. Moving Windows to the cloud invites an opportunity to use a lean, efficient, and lightweight OS on end-users' endpoints. Lean, efficient IGEL OS is the next-gen edge OS for cloud workspaces, designed specifically for this function. Given how far fewer CPU and memory resources are needed for IGEL OS compared to Windows, how might the obvious efficiency gains affect endpoint device performance?

IGEL solicited RawWorks to independently measure the performance of IGEL OS against Windows on some common endpoint devices. Run on Microsoft Azure in combination with Citrix Cloud as the desktop delivery method, 6 real-world scenarios with 3 runs each were conducted to validate the performance of video conferencing, multimedia, and productivity. Let's take a look at the results.

THE RESULTS

On average, IGEL OS showed significant performance gains over Windows across all of the typical usage scenarios, including:

- Video conferencing with reduced CPU utilization (avg. 71%) *and round trip times (avg. 36%)

- 60 FPS HD video streaming with reduced CPU utilization (avg. 52%) and measurable frames per second support equal to or slightly better than Windows

- 3D CAD model rendering with reduced CPU utilization (avg. 61%), and measurable frames per second roughly equal to Windows, and round-trip time reduced on average by 66%

- High-definition 3D visualization with reduced CPU utilization (avg. 45%) , and round-trip time reduced on average by 39%. Measurable frames per second comparable to or better than Windows on the Lenovo endpoint

- PowerPoint with reduced CPU utilization (avg. 54%), and round-trip time reduced on average by 49%. Measurable frames per second comparable to or slightly better than Windows

WHAT IT ALL MEANS

IGEL OS shows consistent performance gains over running Windows locally to attach to digital workspaces in all usage scenarios tested. While no two organizations are the same and "mileage will vary", those firms running similar apps and workloads can expect similar results. For all end-users regardless of their role or workspace/ app mix and endpoint device used, better performance – and an improved user experience – can be expected. That's great news not only for end-users, but also for the IT teams tasked to keep their organization's people happy and productive.

CONCLUSION

From the independent testing discussed above, we can draw the following conclusions:

- Long known for its improved security and ease of management at scale, IGEL OS offers significant performance gains for end-users

- Greater performance maps directly to a better end-user experience and happier, more productive workers

- With better performance, existing endpoints can be used for much longer before needing to be replaced with new devices, saving significant CAPEX (can be millions in larger enterprises)

- Lean, efficient IGEL OS, being less taxing on CPU and memory, reduces energy consumption to help save OPEX and meet sustainability and carbon footprint requirements

- Not only does IGEL OS extend the life of existing endpoint devices by years, it also injects renewed, higher performance into those devices as well!

- IGEL OS is the next-gen edge OS for cloud workspaces – simple, smart, and secure, with improved performance and better end-user experiences

Click here to view the test scenario videos.

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