High Performance Game Development with Arc Compute and Liqid

Powering the Next Generation of Game Development Infrastructure

ARC COMPUTE

LIQID

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Arc Compute and Liqid are introducing their next generation game development platform, available for on-premise use, as well as in Arc's GPU cloud. This dynamic solution spawned from the overwhelmingly positive response to Liqid's CDI (Composable Disaggregated Infrastructure) and a need to meet increasingly demanding workloads, while achieving optimal cost and resource efficiency throughout the development cycle.

With Liqid's CDI, game development companies are able to pool their GPU resources and share them amongst their various teams, vastly reducing the amount of resources required and substantially increasing resource utilization. Resources can be composed in smaller sizes as workstations during the day for developers and re-deployed after hours in larger sizes for rendering, enabling a single optimized infrastructure that works for every stage of the development cycle and is ideal for the modern hybrid workspace.

Taking it one step further, with Arc Compute's GPU multiplexing software Hyperborea, game developers are able to split hardware resources, while further enhancing performance and decreasing overall software and hardware costs. Arc Compute's software allows for increased GPU user densities, allowing more development to get done on less hardware, all with seemingly native application performance. Additionally, and unlike other GPU multi-tenant solutions, Hyperborea supports most popular consumer GPUs.

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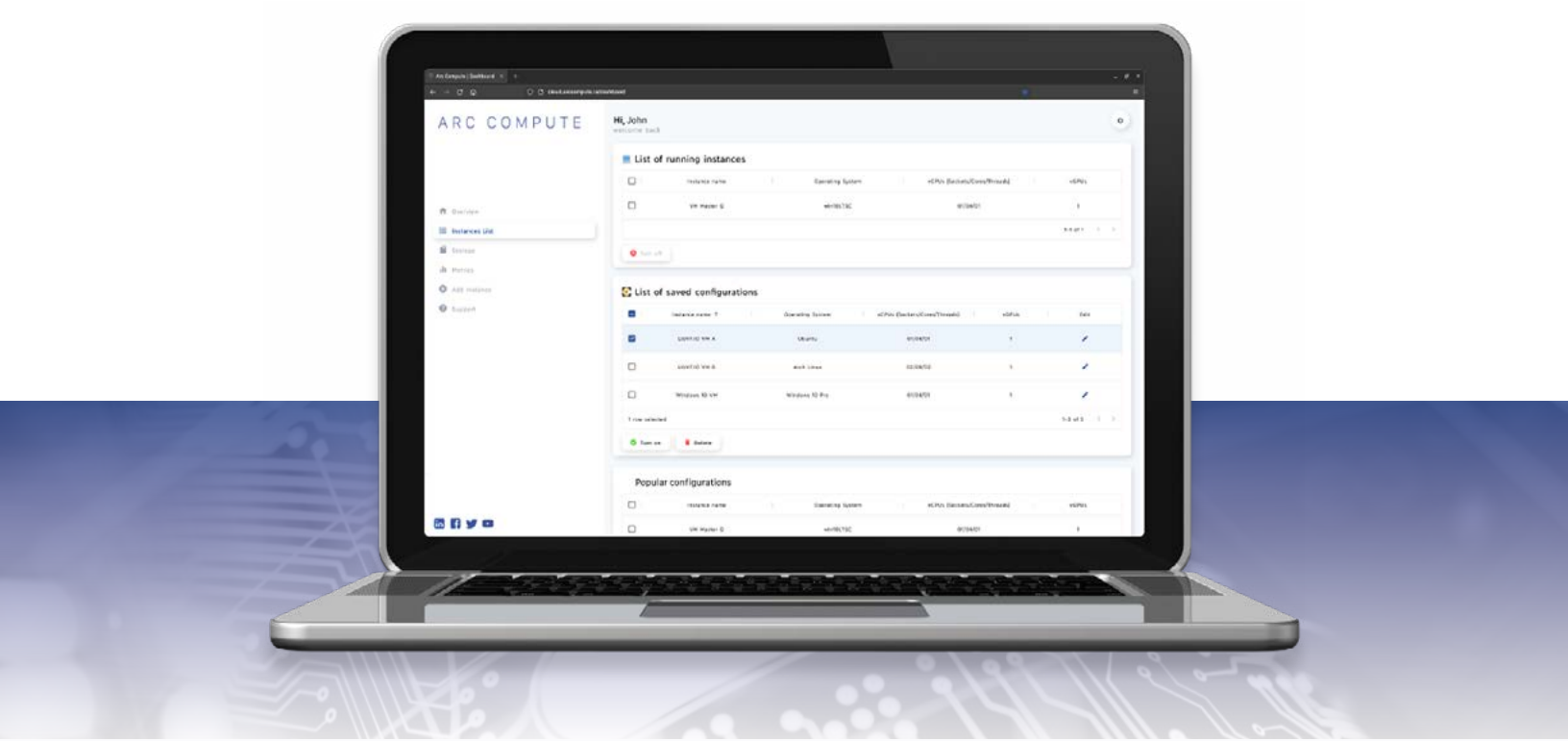
The combination of Liqid's CDI and Arc Compute's GPU multi-tenant software not only allows for up to 100% resource utilization, but also significantly increased performance. Thanks to Hyperborea, GPU resources that are otherwise under performing or idle can reallocate their runtime as well as their VRAM to the active GPU tasks in the resource pool. This allows the user to gain additional resources beyond what they've been allocated and see up to 70 percent increased performance over workloads using other multi-tenant software solutions.

For testing purposes, Hyperborea also allows the user to set arbitrary amounts of GPU memory (VRAM) to test performance against different GPU memory sizes with ease. This allows hardware validation to be achieved much faster when validating for a wide variety of GPUs.

With Arc Compute and Liqid you get more development done, on less hardware, with more flexibility, utilization, and performance.



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With revolutionary hypervisor technology that also offers GPU virtualization functionality, Arc Compute simplifies high performance computing so businesses can spend less time thinking about their costs and infrastructure, and spend more time creating software that changes the world. Clients that specialize in AI, ML, Data Science, and various other forms of High Performance Compute utilize an Arc exclusive, "Simultaneous Multi-Virtual GPU", which allows for superior performance and much higher utilization by dynamically allocating resources at run-time, shifting execution capabilities and GPU cores from under-utilized or idle resources. Arc also offers superior GPU multi-tenancy with the ability to split GPUs up to 64 times, with support coming for 256+.

Learn more about Arc Compute's exclusive GPU configurations that utilize their proprietary hypervisor Hyperborea.

About Liqid

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Liqid's composable infrastructure software platform, Liqid Matrix™, unlocks cloud-like speed and flexibility plus higher efficiency from infrastructure at the core and edge. Now IT can configure, deploy, and scale bare-metal servers in seconds via software, and reallocate accelerator and storage resources real-time as needs evolve. Dynamically provision previously impossible systems or scale existing investments, and then redeploy resources where needed in real-time. Unlock cloud-like datacenter agility at any scale and experience new levels of resource and operational efficiency with Liqid.