

HIGH PERFORMANCE INNOVATION



INSTRUMENTAL FACTS

- Top Secret Facility Clearance through Defense Security Service
- Member of the Provisional Industrial Security Approval (PISA) Program through the National Security Agency
- GSA SCHEDULE 70 HOLDER – GS-35F-0219L
- DUNS: 556930816 / CAGE CODE :067A1

We make the world's fastest systems go faster.

Peak end-to-end performance in large heterogeneous HPC environments depends on how well vendor components are tuned to a specific workload and on how seamlessly those components work together. That's why so many government agencies and commercial enterprises turn to Instrumental. We're the experts in making the world's fastest systems go faster. We're also a trusted advisor in evaluating and benchmarking vendor claims and in developing technology roadmaps for the future.

Our DNA is HPC

Instrumental is an exclusive consulting firm composed of some of the world's leading experts in high performance computing. Our DNA is made up of over 300 years of combined experience in the evolving HPC industry. More than 250 large installations on four continents have used our services to make their systems more efficient and easier to manage. Our clients have included the U.S. government and HPC vendors, as well as financial, engineering, weather forecasting, and other enterprises.

How we can help you.

Systems Engineering

We can help you integrate or upgrade multivendor servers, interconnects, file systems, storage, and local and WAN networks into a cohesive high performance system running at maximum speeds and efficiency. We can also serve as your system engineering technical advisors in evaluating and testing vendor performance specifications.

Benchmark Development and Performance Analysis

We can help when you're in the process of procuring multimillion-dollar systems by evaluating and verifying the specific performance characteristics of these systems, including how they'll perform under real workloads.

Enterprise Systems Architecture

We can help you architect systems from the ground up and implement enterprise initiatives, such as disaster recovery, consolidation of servers, or hierarchical storage management.

Why partner with Instrumental?

We're vendor neutral and vendor savvy.

Instrumental does not resell equipment. We don't receive a dime of compensation from vendors for recommending their products. We're 100% committed to ensuring that you make the right vendor choices. Instrumental has the vendor-neutral expertise to help you sort through, verify, and understand vendor claims of throughput, performance, failure rates, and other measurements that are often overstated by vendors.

We help you keep up with evolving HPC technologies.

Few firms really understand where the HPC industry is heading. We have a deep knowledge of HPC vendor products and their benefits for certain customer environments. This enables us to ensure your technology roadmap is based on viable and cost-efficient long-term vendor options.

Instrumental also actively evaluates emerging technology from HPC vendors that may be under the radar of most consultants. In this way, we can ensure your technology roadmap is based on the latest and most innovative HPC technology.

We bring highly specialized experience to your staff.

Known and respected globally, our consultants are experts at improving systems and optimizing operating systems, file systems, and peripherals to take advantage of the latest HPC technology. They can significantly elevate your internal HPC capabilities on a temporary or long-term basis. And all of our consultants have, at minimum, Secret clearance.

We lower your risks.

Instrumental helps government agencies and enterprises avoid expensive mistakes when it comes to architecting, acquiring, deploying and managing computing and data technologies. We give you the answers you need quickly and reliably. And we help you grow your computing infrastructure in a rational fashion, without guesswork, to achieve optimal long-term performance and cost of ownership.

Make your environment more efficient with Instrumental.

We understand that every single component of a large HPC system must be sized correctly to meet performance, reliability, power and cooling requirements. Because of our experience, including experience with some of the largest and most complex I/O systems ever built, we can do this better than almost anyone else.

When it comes to tuning the world's fastest HPC systems to go faster, Instrumental turns science into art.

Want to learn more? Visit www.instrumental.com or call 651.280.4800.



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