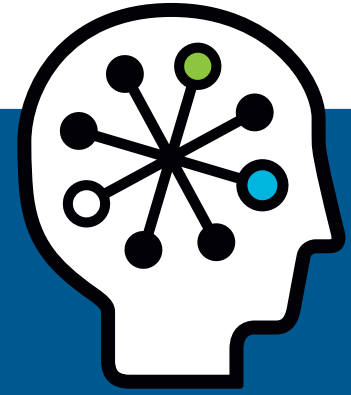




# HP and Mercury Computer Systems

## Avizo, the 3D Visualization Framework



## Scalable 3D Visualization Framework for scientific and industrial data

### Visualization of huge data

The ever-growing size of 3D scientific and industrial data sets is a well-known visualization challenge. Understanding such data requires innovative techniques for advanced visualization. Clever data management, scalability and collaboration capabilities help solving this challenge and gaining detailed insight into today's complex data.

### Avizo, the 3D Visualization Framework

Avizo, based on Mercury Computer Systems ScaleViz and VolumeVizLDM breakthrough technologies, provides a 3D solution that scales with the data, from laptop on the road visualization with remote application capability to high-end visualization cluster and server. Avizo seamlessly aggregates hardware resources, allowing visual interactive exploration of vast data sets. Providing state-of-the-art 3D visualization capabilities, Avizo's open framework allows for integration of custom algorithms, including on-the-fly computation delivering a unique and powerful visualization/computation solution. Avizo revolutionizes the understanding of complex 3D data.

### Solution benefits

- Faster data understanding through state-of-the-art 3D visualization and data management
- Increased productivity through interactive visualization of very large data
- Flexibility and extensibility thanks to built-in scalability including remote application capabilities
- Open framework allowing for dynamic computing coupled with 3D visualization
- Cross-platform solution from fish tank visualization to immersive and collaborative environments

### Working together with HP

High Performance Computing (HPC) solutions set the industry standard in advancing innovation, cost-efficiency and productivity. Organizations of all sizes gain the power of market-changing innovations with standards-based economies and time-proven confidence—making it simpler to speed and optimize the scientific, financial, discovery and engineering development outcomes of their organizations. By partnering with HP, we can leverage our vast knowledge and experience in HPC to deliver complete solutions that help you address your most demanding computing requirements.

## Versatile 3D solution

Avizo is the most versatile 3D Visualization Framework. From scientific visualization for the engineer or the researcher to highly specialized visualization in the oil and gas or materials science area, Avizo increases understanding of complex datasets.

From pre-processing of 3D data to post-processing of simulation results, Avizo is the front-end to solvers and technical computing engines and is the solution to understand scalar, vectors and tensors field information.

From simple slicing to volume rendering, 3D surface reconstruction and quantitative analysis, Avizo is the solution to understand 3D data from Electron Tomography or CT-Scan in the materials science area or core sample analysis.

From desktop visualization to complex multi-screen configurations and from personal visualization to immersive and collaborative environments, Avizo solution fits all.

The open framework design of Avizo allows for easy customization, including personal algorithms that may extend visualization capability but also computation modules, delivering a perfect way of coupling dynamic computing with 3D visualization.

### HP products supported

Our solutions are supported on a broad range of HP servers. From blades and clustered servers to high-powered, 64-bit, multi-processor super-computing, HP servers set the standard for performance, scalability, availability and manageability. With their industry-leading innovation and value, HP servers are the ideal choice to meet your most demanding business needs.

### Operating systems supported

Our solutions are optimized for Microsoft® Windows® environments. By working with HP, we can leverage its experience with more than 11 million deployments of Microsoft Windows 2000/2003/XP seats, and over 1400 Microsoft .NET projects, to deliver a complete Microsoft Windows-based solution. With this extensive

Microsoft Windows expertise, you can be sure our solutions will be implemented with the highest quality, in less time and at the best cost.

Our Linux-based solutions are built on best-of-breed software and standards-based servers—delivered with world-class services. By working with HP, we can leverage its leadership in Linux to provide optimized solutions based on HP Open Source Integrated Portfolio (OSIP) and HP Open Source Middleware Stacks (OSMS). With our combined expertise and comprehensive services, you get open, integrated, cost-effective and proven Linux solutions that deliver the best return on your IT investments with confidence.

### Building on the value of strong relationships

By working with HP, we have the resources, experience and knowledge of an industry leader to ensure our solution delivers the business results and value your company requires. HP is a company that thrives on innovation, with a proven track record of success in virtually every market, customer segment and region worldwide. Together, we have the technology and services to meet your most demanding needs.

Mercury Computer Systems is the leading provider of software for data-intensive visualization applications. Mercury Computer Systems' scalable and flexible software solution takes natural advantage of HP hardware and software offerings, from desktop platforms to visualization cluster solutions.

### Working together to drive success

By combining standards-based and modular technologies with our leading-edge applications and a full portfolio of services, you gain a powerful, flexible solution that meets your business needs today—and adapts dynamically as those needs change. That's the foundation for building an agile, responsive enterprise to drive better business outcomes for your long term success.

## Technology for better business outcomes

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