



HP and AVS (Advanced Visual Systems)

AVS/Express high performance editions



AVS/Express is a versatile data visualization system that allows any type and size of data to be processed and visualized.

True high-performance

Large and complex datasets present a challenge to most data visualization systems. AVS offers a comprehensive product line with a powerful toolkit for creating applications, parallel processing techniques for rapid rendering, and a Multipipe display system for large-scale presentation.

AVS/Express performance editions

AVS/Express Developer Edition offers a library of over 900 fine-grain modules that perform a wide range of visualization and data management tasks. Users can quickly customize a solution using a powerful drag-and-drop programming interface.

AVS/Express Parallel Edition harnesses the power of multi-processor and networked computers for high-performance tasks by permitting distributed computation across shared memory or clustered processor architectures.

AVS/Express Multipipe Edition allows the display of data visualization applications over the latest multi-screen and immersive systems such as panoramic theaters, CAVES, immersive bench systems and stereo display devices.

Solution benefits

- A single AVS/Express application runs on all High Performance Computing (HPC) editions and supported platforms
- Exploits low-cost and high-end systems for scalable parallel and distributed processing
- Create custom and proprietary modules using the full-featured AVS/Express application programming interface (API)
- Compile and distribute applications that will run on any supported platform
- Integrate custom and sophisticated algorithms in any application

Working together with HP

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 easier 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.

Fast, powerful visualization

AVS/Express Developer Edition: standard charting, graphics and advanced visualization support including 900 modules and advanced techniques; extensive output formats; read all leading data formats; more information upon request

AVS/Express Parallel Edition: Provides a framework for parallel computation within both AVS/Express Developer Edition and AVS/Express Multipipe Edition; delivers a parallel module suite of readers, filters and mappers that can be combined with existing AVS/Express networks, improving productivity and significantly increasing operational performance; more information upon request

AVS/Express Multipipe Edition: runs in nearly all immersive display systems; viewer-centered perspective and six degrees-of-freedom; configurable for multiple pipes and/or multiple channels; optional head tracking and wand support; supports single PC or graphics cluster; supports quad-buffering; stereo rendering support; more information upon request

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 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 the 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 better provide our solution while delivering 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.

AVS provides industry-leading, interactive data visualization software and solutions that help business, scientific and engineering users gain critical insight from all types of data.

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.

For more information, visit www.hp.com
www.avs.com/express/

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 **AVS** Advanced Visual Systems

