Software Defined Visualization

SDVis Appliance

Gain deeper understanding of data impacting science & discovery.

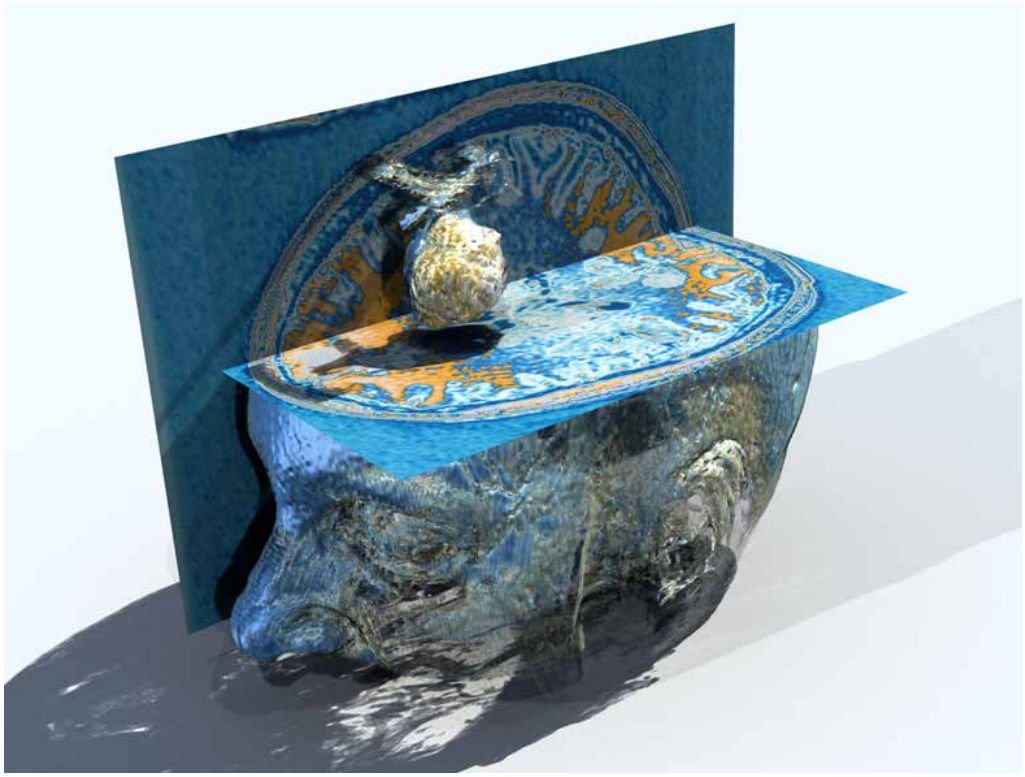
Software Defined Visualization

- Open-source libraries developed by Intel® used in leading visualization and in-situ applications.

- Optimized for parallel processing architectures used in Intel® Xeon® and Intel® Xeon Phi™ processors.

- Allows much larger datasets due to increased memory than found in GPUs.

- Provides increased visual fidelity and better management and efficiency of the visual solution.



Get faster insights

Software Defined Visualization (SDVis) is the use of open-source libraries developed by Intel® that are used in leading applications on Intel® platforms that offer advantages over other approaches.

These libraries are optimized for parallel processing architectures used in Intel® Xeon® and Intel® Xeon Phi™ processors. This provides access to much larger memory spaces than found in GPUs which allows the use of much larger datasets. Additionally, these libraries provide increased visual fidelity and better management and efficiency of the visual solution.

A complete, end-to-end large scale visualization system

The SDVis Appliance offers a pre-configured solution for in-situ, post-processing, and professional rendering visualization tasks. It can support visualization of data sets up to 1.5TB in size.

The SDVis Appliance includes all the necessary software for visualization including SDVis software (ParaView, VTK, Vislt, VMD), Intel® Parallel Studio XE Cluster Edition, Intel® HPC Orchestrator management software and software development tools.

SPECIFICATIONS

Master Head Node (Node + Display Management)

Hardware - 1x Head Node:
- 2X Intel® Xeon® Processors E5-2697 v4 (45M Cache, 2.30 GHz, 18 core), 256GB DDR4 2400, Up to 6x 4K Monitors Display Cards. 1x Intel® OPA HFI, 1x Intel® 480GB SSD

Software
- CentOS 7.3, Intel® HPC Orchestrator

Compute Nodes (Compute + Render)

Hardware - 8x Compute Nodes; Each Node:
- 1X Intel® Xeon Phi™ Processor 7250 (16GB, 1.40 GHz, 68 core), 192GB DDR4 2400, 1x Intel® OPA HFI, 1x Intel® 150GB SSD

Software
- CentOS 7.3, SDVis Software (ParaView, VTK, Vislt, VMD), Intel® Parallel Studio XE Cluster Edition, SW Dev Tools

Storage

Hardware - 1x Storage Node:
- 1X Intel® Xeon® Processor E5-2620 v4 (20M Cache, 2.10 GHz, 8 core), 64GB DDR4 2400, 1x Intel® OPA HFI, 32TB RAID

Networking (OPA/100G Ethernet)

24 Port Intel® OPA Edge Switch, 16 Port Ethernet Switch

The Colfax Difference

- Authorized Partner for Intel® SDVis Appliance
- Intel® Platinum Technology Provider
- Intel® Platinum Technology Provider - HPC Data Center Specialist
- Leader in Highly Customized HPC Solutions
- High level domain expertise with performance optimization for parallel architectures

Expertly Architected

The SDVis Appliance featuring Intel's latest compute, fabric, memory, and storage technologies, is expertly architected, pre-tested, and validated in a design that makes you productive right out-of-the-box.

- Flexibility of a custom solution with the simplicity, reliability and value of a preconfigured, factory-built product.
- Based on Intel® Rack Scale Design, delivering increased performance through pooled resources (network, compute, and storage) and enabling hyper-scale agility via flexible, modular architecture.
- Bundled with all the necessary software for visualization and rendering, node management, and software development.

The SDVis Appliance is designed to help you achieve timely results and insights faster, through quick deployment and high performance, backed by great support. Contact us at sales@colfax-intl.com to find out more.

Learn more at: http://sdvis.xeonphi.com

COLFAX Customized Solutions

750 Palomar Ave, Sunnyvale, CA 94085 USA | www.colfax-intl.com | Tel: 408 730 2275