

ADIOS Visualization Schema for VisIt

Dave Pugmire, Gary Liu, Scott Klasky (ORNL)

VisIt and ADIOS

- **VisIt: Large data parallel visualization tool**
 - Rich set of visualization and analysis plots and operations
 - Plug-in API allows for easy extension
- **ADIOS: adaptable I/O framework**
 - Provides portable, fast, scalable, easy-to-use, metadata rich output with a simple API
 - Visualization Schema provides an xml based method for attribute generation

Result/Impact

- ADIOS Vis Schema bridges the gap between simulation and visualization tools
- Minimize impact of application changes to visualization tools
- Support for uniform, rectilinear, curvilinear and unstructured grids
- VisIt data reader for ADIOS Visualization schema to be released in VisIt 2.7.1

Visualizations

Examples showing rectilinear and unstructured meshes generated with ADIOS Vis Schema and visualized in VisIt

