

# Visualization Support for Fusion

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### 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

### Result/Impact

- Developed a parallel XGC ADIOS reader for simulation data
- Computation of derived turbulence quantity
- Parallel analysis and visualization possible now on XGC simulation data

### Future Directions

- Development of feature detection and comparative analysis algorithms
- ADIOS Visualization Schema for post processing needs

