

Effective Analysis and Data Management with Geoprocessing

Goals of the workshop

- Provide design tips and best practices for managing and analyzing enterprise data with geoprocessing.
- Learn how to implement key aspects of the geoprocessing framework for large datasets and illustrate how to use tools, ModelBuilder, and scripting techniques to produce repeatable, documented workflows that can be shared among users.

Major topics covered

- What are the challenges for geoprocessing (large data, user expectations)?
- Large data processing (Overlay, Proximity, Dissolve). Describe improvements made with ArcGIS 9.2 and 9.3.
- Identify reasons why users may still get 'Out of memory' errors when using tools.
- Provide recommendations when working with large datasets.
- Improvements to Spatial Join tool with ArcGIS 9.2 and 9.3.
- Explain improvements to Proximity tools with ArcGIS 9.3.
- Explain improvements for Dissolving features with ArcGIS 9.2 and 9.3.
- Working with Joins—new tool with ArcGIS 9.3.
- Data Migration Techniques (Tools, Field manipulation)—Illustrate how to use models and scripts to build migration workflows.
- Working with Enterprise Geodatabases—ArcGIS 9.2 and 9.3 improvements.
- General tool improvements with ArcGIS 9.2 and 9.3.
- Tool progress and messages with ArcGIS 9.3.
- How to use environment settings.
- SQL Support for Python in ArcGIS 9.3.
- Optimizing Spatial Analyst performance.