

The Trilinos Project

- Open source libraries for scientific computation
- Loosely translated "a string of pearls"
- Organized on the concept of "packages"
- Philosophy:
 - Minimize package interdependence
 - Maximize package interoperability
- URL: http://trilinos.sandia.gov



Packages: Linear Algebra Services

- Epetra
- JPetra
- Tpetra
- ullet EpetraExt



The Treasury at Petra, Jordan

Solvers and Preconditioners

- Linear Solvers
 - Amesos
 - AztecOO
 - Belos
 - Komplex
- Nonlinear Solvers
 - NOX
- Others
 - Anasazi
 - Rythmos
 - MOOCHO
- Preconditioners
 - IFPACK
 - ML

Tools and Utilities

- Teuchos
- Isorropia
- ullet PyTrilinos

PyTrilinos

- Python wrappers for many useful Trilinos packages
- Uses SWIG for wrapper generation
- Fully compatible with Numpy



http://trilinos.sandia.gov/packages/pytrilinos/