



PRACE Autumn School 2016

PETSc tutorial

Part VII: Advanced Topics

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SNES, SLEPc



- `exercises/ex8.c`: solve again the same linear problem as `ex7` but with nonlinear API of SNES
- src/snes/examples/tutorials/ex1.c.html: simple really nonlinear problem
- `slepctest/ex6.c`: the same as `ex6` but with additional eigenvalue analysis using SLEPc
- **compare codes and runs**
- you can look at **DMPlex** (unstructured grids) what it is about – see [Users Manual](#)
- for mathematical optimization, look at [TAO](#)
- for quadratic programming, [PERMON](#) is developed at our institute