2011-2016 PyLith Dev Plans

PyLith Development Plans

Software development plans for PyLith

Version 1.6 (by June training session)

OPTIMIZATION

Multiple fields in a single Sieve section done
 At this point, only used for parameters of fault constitutive models.

GENERAL

HDF5 output done
 Output into a single HDF5 file or an HDF5 file with raw binary files for the datasets. Datasets are written using MPI I/O if available in both cases. Add !.Xdmf metadata files associated with HDF5 files to permit reading of HDF5 files with ParaView and Visit.

Uniform global refinement done (98%)

С

2-D plane strain versions of the 3-D generalized Maxwell viscoelastic rheology. done

nping via viscosity done

cal damping via a viscosity parameter that is independent of the bulk constitutive model. The viscosity is the time integration.

Ε

| ve section intermediate (0%) onstitutive models s related to fault implementation |
|---|
| use of memory cache. |
| on easy (0%) |
| in order to diagnose parameter settings. |
| ion of tractions from initial value |
| dels. |
| rmediate (50%) |
| Э. |
| ng on desktop machines that have GPUs. |
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| n calculations th | nan slip on a fault sur | face via cohesive | cells. difficult | |
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