Examples

Example files not included in the PyLith Git repository

These are intermediate files used in the examples that are generated by third-party software (for example, mesh files from CUBIT/Trelis) and are larger than what we want to include in the Git repository. We provide these files so that users need not have this third-party software to run the examples.

CUBIT/Trelis Meshes

mesh_tet.zip (2 MB, uploaded by Lorraine Hwang 2 years 2 months ago)

Additional Examples Not Included in the Manual

Examples not included in manual. Most of these are too big to be included in the manual.

Volcano with dike and magma chamber

- volcano_chamberdike.tgz (80 KB, uploaded by Lorraine Hwang 2 years 2 months ago) (Updated 2018-12-19)

This is a simple demonstration of a problem involving volcanic deformation. The demo includes files for creating the mesh using Trelis/CUBIT along with .cfg files and the necessary spatial databases to run a problem. The problem includes coarse topography of Mt. Ruapehu volcano, a vertical dike, and a spherical magma chamber.

Updated 2018-12-18 to fix a topology issue associated with smoothing the mesh that resulted in NaN residual norm when running PyLith. Also updated the field split solver settings in pylithapp.cfg for PyLith v2.2.1.

Missing file for examples/meshing/cubit_cellsize

- (file:cubit_cellsize_missing.tgz.doc not found)

atprops.spatialdb' is missing from directory examples/meshing/cubit_cellsize in v2.0.1 and earlier.

```
d examples/meshing/cubit_cellsize
ar -zxvf cubit_cellsize_missing.tgz
```

or debugging example

debugging.tgz (13 KB, uploaded by Lorraine Hwang 2 years 2 months ago)

xtracting tarball in examples directory.

```
ples
vf debugging.tgz
gging
```

for examples/3d/hex8

missing-files.tgz (3 KB, uploaded by Lorraine Hwang 2 years 2 months ago)

g tarball in examples/3d/hex8 directory.

```
3d/hex8
x8-missing-files.tgz
```

on meshing based on sizing function – single surface, with info added in matlab instead of

_function_example.tar (60 KB, uploaded by Lorraine Hwang 2 years 2 months ago)