Instructions for Installing and Running TopoFlow

October 24, 2016

1 Installing and Running TopoFlow Python Package using EMELI

Required: This section refers to the TopoFlow Python package. In order to run TopoFlow, you must have Python 2 installed on your machine. The Anaconda package and environment manager is a very easy way to install Python, but there are many options available.

1. Download the TopoFlow package from GitHub.

2. Install the package at the command line using the command:

   ```
   >> python setup.py install
   ```

   NOTE 1: You may receive messages about missing packages during the installation. If so, please install the required package and restart the installation procedure. For hdf5 support, you must install the package h5py NOT hdf5.

   NOTE 2: The component_repository.xml file in the framework folder may not be copied to the corresponding install folder so it may have to be moved manually.

3. Once the package has been installed, TopoFlow can be run by first importing the package

   ```
   import topoflow
   ```

   The full command to run TopoFlow using EMELI is

   ```
   topoflow.topoflow.framework.tests.test_framework.topoflow_test(\
   cfg_prefix='fileprefixhere',cfg_directory='inputpathhere') .
   ```

   Since this is quite verbose, you may choose to call an import on this specific command:

```
from topoflow.topoflow.framework.test_framework import topoflow_test as runtopo
```

There are two inputs to the TopoFlow command: the configuration file
name prefix and the configuration file directory. These required configu-
ration input files are described in the section (insert required TopoFlow
inputs ref here.)