Lonestar 5 - IRC Tools

IRC Software Stack

The IRC maintains a software stack for the following neuroscience tools and libraries:

- ants
- FreeSurfer
- FSL
- FSLView
- MRICron
- libQWT
- libVTK

For each of these tools we provide a lmod compatible module. To get access to the IRC modules, you must first run in your terminal:

```
module use /work/IRC/ls5/opt/modules
```

Once you've run that all the modules are available to load and can be loaded by running:

```
module load ants
module load fsl
module load freesurfer
module load fslview
module load mricron
```

These will load the modules into your environment the same way a TACC lmod loader works. Each of the apps is installed at /work/IRC/ls5/opt/apps. All IRC modules support the TACC `module help <modulename>` command as well.

Python Extensions

We also maintain some common neuroscience Python2.7 extensions including:

- PyMVPA
- Nibabel
- Openfmr
- PyDicom
- PyXNAT
- XNAT_Tools

All of these are installed at /work/IRC/ls5/lib/python2.7/site-packages. We also provide a module loader to quickly add these extensions that can be loaded with:

```
module load python
module load ircpy
```

You must have a compatible python module loaded first, or the ircpy extensions will throw an error and not load. You must also run the:

```
module use /work/IRC/ls5/opt/modules
```

line in your terminal first or the ircpy module will not load or be found by the lmod indexer.

Once you have successfully loaded the ircpy module, you can import tools like Nibabel and PyXNAT normally.