Installing MTS

Installation of the MTS interface software via the Python easy install process.

Installing Dependencies

Requires: 'valon synth', 'serial', 'iniparse', 'inspect', 'signal', 'optparse', 'numpy'

The MTS interface uses the Python Valon library provided by the NRAO:

https://github.com/nrao/ValonSynth

Install the package using the information in https://github.com/nrao/ValonSynth/wiki.

An old fork for the VALON 5007 can be found on:

```
https://github.com/rubyvanrooyen/ValonSynth
```

```
> git clone git@github.com:rubyvanrooyen/ValonSynth.git
```

```
> cd ValonSynth/
```

```
> python setup.py build
```

```
> python setup.py install --prefix=/home/ruby/.virtualenvs/venv
```

```
> ls ~/.virtualenvs/venv1/lib/python2.7/site-packages/valon_synth/
or
```

> pip install .

PySerial for python serial connections

https://wiki.python.org/moin/PySerial

```
> svn co http://svn.code.sf.net/p/pyserial/code/trunk/pyserial/
```

> cd pyserial/

> pip install .

Ini file parser for python

https://pypi.python.org/pypi/iniparse

```
> tar -xvzf iniparse-0.4.tar.gz
```

> cd iniparse-0.4/

> pip install .

or to install on the system

> sudo aptitude install python-iniparse

Since numpy is a fairly extensive package it is suggested that it be installed on a system level > sudo aptitude install python-numpy

The last imports should be part of python standard library

The inspect module provides several useful functions to help get information about live objects

The signal module set handlers for asynchronous events

The optsparse module provides a parser for command line options

Installing MTS

To prevent continuous reinstallation during development of the MTS package, it is suggested that a development installation be done using pip

```
(-e, --editable <path/url> Install a project in editable mode (i.e. setuptools "develop mode") from a local project path or a VCS url.). This will make links in the relevant directories to the source scripts in the package directory where the user is editing and developing.
```

Download the software package from https://github.com/ska-sa/mts

```
> git clone git@github.com:ska-sa/mts.git
```

- > cd mts
- > pip install -e .
- > ipython
- > import mts
- > mts.MTS.get cw?