Sigpyproc Install Memo (Including MAC OS and linux)

chenhui niu (peterniu@nao.cas.cn)

From:

https://github.com/ewanbarr/sigpyproc

Liability library:

- * numpy
- * ctypes
- * FFTW3
- * OpenMP

Numpy:

sudo apt-get install python-numpy

In general numpy and ctypes are including in the OS.

FFTW:

http://www.fftw.org/

(I use FFTW 3.3.6)

tar -xvzf fftw-3.3.6-pl2.tar.gz

sh bootstrap.sh
./configure —enable-float --enable-shared
make
make install (might required sudo)

OpenMP:

Linux:

OpenMP is already in mpich: sudo apt-get install mpich

Mac:

As the clang-c is different with gcc in ubuntu, we need install gcc with brew: brew installation:

/usr/bin/ruby -e "\$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

Change the gcc compiler to new gcc: Then brew install gcc –without-multilib

```
rm /usr/bin/gcc
rm /usr/bin/g++
rm /usr/bin/c++
rm /usr/bin/cpp
rm /usr/bin/cc
```

We have change the defaulted compiler by our download~

Now We're going to sigpyproc Source directory: sudo python setup.py install

Mac:

Be careful about the difference between Clang-gcc and gcc in Ubuntu. We need modified the Makefile in c_src/just delete the whole -Wl, --no-as-needed comand: :%s/-Wl,--no-as-needed/

Linux:

no need to change

Then go to upper directory: sudo python setup.py install

Environment configure:

After that, we have already installed the sigpyproc. Last thing is to make a configure in ~/.bashrc or ~/.bash_profile

export LD_LIBRARY_PATH="\$LD_LIBRARY_PATH:/home/nch/sigpyproc/lib/c/" export PYTHONPATH="\$PYTHONPATH:/home/nch/sigpyproc/"

Then we might be able to import library from sigpyproc:

from sigpyproc.Readers import FilReader

...

END