-- ZihengChen - 2016-09-21

All HEP software will installed under /usr/local/. Therefore please make sure you have Read&Write permission to the directory, by checking info of the folder.

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

This will create homebrew in /usr/local/. After this installation, install

```
brew install pcre      # Regular Expressions library
brew install fftw      # Fast Fourier Transform
brew install openssl   # openSSL security cyber-communication library
brew install cmake     # Cross-platform make
```

Openssl is not nessary and has already been included in the MacOS EL Captain. However, when installing root, **libssl.1.0.0.dylib** (a higher version than system inbuilt) is required by root 6. Therefore I have to copy the usr/local/Cellar/openssl/lib/libssl.1.0.0.dylib to $ROOTSYS/lib

After download hepMC, a pythia 8 outputing format writer.

```
/configure --prefix=/usr/local/hepmc --with-momentum=GEV --with-length=MM
make
make install
```

anaconda 2

This install anaconda python. Please do anaconda 2, because rootpy so far only support python 2.

root

```
$ export INSTALL_DIR=/usr/local/root
$ mkdir $INSTALL_DIR
$ cd $INSTALL_DIR
$ cmake ~/Desktop/root -DCMAKE_INSTALL_PREFIX=$INSTALL_DIR -Droofit=ON -Dcocoa=ON -Dpython=
$ make -j 4
$ make install
```

This topic: Sandbox > 09212016
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