INSTALL PYHDF

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1. PREREQUIRED

JPEGDIR="/Users/dagoret-campagnesylvie/MacOsX/External/jpeg"
ZLIBDIR="/Users/dagoret-campagnesylvie/MacOsX/External/zlib"
SZLIBDIR="/Users/dagoret-campagnesylvie/MacOsX/External/szip"

2. INSTALLATION HDF4

JPEGDIR="/Users/dagoret-campagnesylvie/MacOsX/External/jpeg"
ZLIBDIR="/Users/dagoret-campagnesylvie/MacOsX/External/zlib"
SZLIBDIR="/Users/dagoret-campagnesylvie/MacOsX/External/szip"

H4DIR="/Users/dagoret-campagnesylvie/MacOsX/External/hdf4"

./configure --enable-shared --disable-netcdf --disable-fortran --with-jpeg=${JPEGDIR} --with-zlib=${ZLIBDIR} --with-szlib=${SZLIBDIR} --prefix=${H4DIR}

3. INSTALLATION HDF5

JPEGDIR="/Users/dagoret-campagnesylvie/MacOsX/External/jpeg"
ZLIBDIR="/Users/dagoret-campagnesylvie/MacOsX/External/zlib"
SZLIBDIR="/Users/dagoret-campagnesylvie/MacOsX/External/szip"

H5DIR="/Users/dagoret-campagnesylvie/MacOsX/External/hdf5"

./configure --enable-shared --disable-netcdf --with-jpeg=${JPEGDIR} --with-zlib=${ZLIBDIR} --with-szlib=${SZLIBDIR} --prefix=${H5DIR}

4. INSTALLATION NETCDF

NETCDFDIR="/Users/dagoret-campagnesylvie/MacOsX/External/netcdf"

H5DIR="/Users/dagoret-campagnesylvie/MacOsX/External/hdf5"
H4DIR="/Users/dagoret-campagnesylvie/MacOsX/External/hdf4"
JPGDIR="/Users/dagoret-campagnesylvie/MacOsX/External/jpeg"

CPPFLAGS="-I${H5DIR}/include -I${H4DIR}/include -I${JPGDIR}/include " \

  LDFLAGS="-L${H5DIR}/lib -L${H4DIR}/lib -L${JPGDIR}/lib" \
  ./configure --enable-hdf4 --enable-hdf4-file-tests --prefix=${NETCDFDIR}

5. INSTALLATION PYHDF

README.md to install pyhdf
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   ## 1) BEFORE INSTALLING PYHDF ONE MUST DEFINE INCLUDE_DIRS
   AND LIBRARY_DIRS
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export JPEGDIR="/Users/dagoret-campagnesylvie/MacOsX/External/jpeg"
export ZLIBDIR="/Users/dagoret-campagnesylvie/MacOsX/External/zlib"
export SZLIBDIR="/Users/dagoret-campagnesylvie/MacOsX/External/szip"
export H4DIR="/Users/dagoret-campagnesylvie/MacOsX/External/hdf4"
export H5DIR="/Users/dagoret-campagnesylvie/MacOsX/External/hdf5"
export H4H5DIR="/Users/dagoret-campagnesylvie/MacOsX/External/h4h5"
export SZIP=1
export
INCLUDE_DIRS=${H4DIR}/include:${H5DIR}/include:${SZLIBDIR}/include:${ZLIBDIR}/include:${JPEGDIR}/include

```
export
LIBRARY_DIRS=${H4DIR}/lib:${H5DIR}/lib:${SZLIBDIR}/lib:${ZLIBDIR}/lib:${JPEG
DIR}/lib
```

2) MODIFY SETUP.PY

- add zip_safe flag:

```
setup(name        = 'pyhdf',

    zip_safe = True,

    )
```

3) MAKE THE PYHDF

```
python setup.py install
```

4) JPEG LIBRARY MUST BE INSTALLED IN PYTHON ENVIRONMENT

- So in working directory:

```
ln -s /Users/dagoret-campagnesylvie/anaconda/envs/pyastrophys/lib/libjpeg.8.dylib
```