

GammaLib - Bug #2958

Correct cfitsio library dependency

07/15/2019 09:36 AM - Knödseder Jürgen

Status: Closed	Start date: 07/15/2019
Priority: Normal	Due date:
Assigned To: Knödseder Jürgen	% Done: 100%
Category:	Estimated time: 0.00 hour
Target version: 1.6.2	
Description It turned out that with the latest conda the install breaks since by default a higher cfitsio version gets installed compared to the version against which gammalib was build. It turned out that on Mac OS X, the conda build is built against the cfitsio and readline libraries installed in /usr/local/gamma/lib, which explains the dependency problems. On SL6 64, the conda build is built against the cfitsio library installed in /usr/lib64.	
Related issues: Related to ctools - Bug # 3619: conda install does not install latest version Closed 04/26/2021	

History

#1 - 07/15/2019 09:43 AM - Knödseder Jürgen

It is not true that the library is build against the installed cfitsio or readline versions, I looked at the wrong place. The library is well built against the libraries installed in the conda environment.

readline	7.0
ncurses	6.0
cfitsio	3.430

#2 - 07/15/2019 11:29 AM - Knödseder Jürgen

- Status changed from New to In Progress

- % Done changed from 0 to 50

On SL6, Python 3.7 requires at least ncurses 6.1. I therefore dropped the version number of ncurses.

#3 - 07/15/2019 10:32 PM - Knödseder Jürgen

- Status changed from In Progress to Closed

- % Done changed from 50 to 100

After creating an Anaconda release for gammalib, I tested the installation using the most recent Anaconda distribution on my Mac:

```
$ conda create -n gammalib-test python=3.7
Collecting package metadata (current_repodata.json): done
Solving environment: done
```

```
## Package Plan ##
```

```
environment location: /Users/jurgen/anaconda3/envs/gammalib-test
```

```
added / updated specs:
- python=3.7
```

The following NEW packages will be INSTALLED:

```

ca-certificates pkgs/main/osx-64::ca-certificates-2019.5.15-0
certifi pkgs/main/osx-64::certifi-2019.6.16-py37_0
libcxx pkgs/main/osx-64::libcxx-4.0.1-hcfea43d_1
libcxxabi pkgs/main/osx-64::libcxxabi-4.0.1-hcfea43d_1
libedit pkgs/main/osx-64::libedit-3.1.20181209-hb402a30_0
libffi pkgs/main/osx-64::libffi-3.2.1-h475c297_4
ncurses pkgs/main/osx-64::ncurses-6.1-h0a44026_1
openssl pkgs/main/osx-64::openssl-1.1.1c-h1de35cc_1
pip pkgs/main/osx-64::pip-19.1.1-py37_0
python pkgs/main/osx-64::python-3.7.3-h359304d_0
readline pkgs/main/osx-64::readline-7.0-h1de35cc_5
setuptools pkgs/main/osx-64::setuptools-41.0.1-py37_0
sqlite pkgs/main/osx-64::sqlite-3.28.0-ha441bb4_0
tk pkgs/main/osx-64::tk-8.6.8-ha441bb4_0
wheel pkgs/main/osx-64::wheel-0.33.4-py37_0
xz pkgs/main/osx-64::xz-5.2.4-h1de35cc_4
zlib pkgs/main/osx-64::zlib-1.2.11-h1de35cc_3

```

Proceed ([y/n])? y

Preparing transaction: done

Verifying transaction: done

Executing transaction: done

#

To activate this environment, use:

> conda activate gammalib-test

#

To deactivate an active environment, use:

> conda deactivate

#

\$ conda activate gammalib-test

\$ conda install gammalib

Collecting package metadata (current_repodata.json): done

Solving environment: done

Package Plan

environment location: /Users/jurgen/anaconda3/envs/gammalib-test

added / updated specs:

- gammalib

The following packages will be downloaded:

package	build	size	source
gammalib-1.6.2	py37h0e1a375_1	25.7 MB	cta-observatory
libgfortran-3.0.1	h93005f0_2	426 KB	
Total:		26.1 MB	

The following NEW packages will be INSTALLED:

```

cfitsio conda-forge/osx-64::cfitsio-3.430-h50cca31_1002
curl pkgs/main/osx-64::curl-7.64.1-ha441bb4_0
gammalib cta-observatory/osx-64::gammalib-1.6.2-py37h0e1a375_1
krb5 pkgs/main/osx-64::krb5-1.16.1-hddcf347_7
libcurl pkgs/main/osx-64::libcurl-7.64.1-h051b688_0
libgfortran pkgs/main/osx-64::libgfortran-3.0.1-h93005f0_2
libssh2 pkgs/main/osx-64::libssh2-1.8.2-ha12b0ac_0

```

Proceed ([y/n])? y

Downloading and Extracting Packages

gammalib-1.6.2 | 25.7 MB | ##### | 100%

libgfortran-3.0.1 | 426 KB | ##### | 100%

Preparing transaction: done

Verifying transaction: done

Executing transaction: done

\$ createfits

\$ optimize

Function value: 0.498902

Parameter value: 0.50055

Things seem to work as expected. Close the issue now.

#4 - 04/26/2021 03:59 PM - Knödseder Jürgen

- *Related to Bug #3619: conda install does not install latest version added*