

## ctools - Bug #3619

### conda install does not install latest version

04/26/2021 03:49 PM - Knödlseeder Jürgen

<b>Status:</b>	Closed	<b>Start date:</b>	04/26/2021
<b>Priority:</b>	Urgent	<b>Due date:</b>	
<b>Assigned To:</b>	Knödlseeder Jürgen	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			

#### Description

When trying to install ctools using conda in a Python 2.7 environment it fetches an old ctools version (1.6.1):

```
$ conda create -n myenv python=2.7
$ conda activate myenv
$ conda install ctools
```

The following packages will be downloaded:

package	build	
bzip2-1.0.8	h1de35cc_0	75 KB
cfitsio-3.470	hee0f690_6	782 KB
ctools-1.6.1	py27hc094b50_1	7.2 MB cta-observatory
gammalib-1.6.1	py27h8ba401d_1	25.7 MB cta-observatory
openssl-1.1.1k	h9ed2024_0	2.2 MB
python-2.7.15	h932b40d_1008	12.1 MB conda-forge
Total:		48.1 MB

```
$ conda activate myenv
```

```
(myenv) macp0135:~ jurgen$ python -c 'import ctools; ctools.test()'
```

Traceback (most recent call last):

```
File "<string>", line 1, in <module>
File "/Users/jurgen/anaconda3/envs/myenv/lib/python2.7/site-packages/ctools/__init__.py", line 21, in <module>
  import gammalib
File "/Users/jurgen/anaconda3/envs/myenv/lib/python2.7/site-packages/gammalib/__init__.py", line 21, in <module>
  from gammalib.app import *
File "/Users/jurgen/anaconda3/envs/myenv/lib/python2.7/site-packages/gammalib/app.py", line 28, in <module>
  _app = swig_import_helper()
File "/Users/jurgen/anaconda3/envs/myenv/lib/python2.7/site-packages/gammalib/app.py", line 24, in swig_import_helper
  _mod = imp.load_module('_app', fp, pathname, description)
ImportError: dlopen(/Users/jurgen/anaconda3/envs/myenv/lib/python2.7/site-packages/gammalib/_app.so, 2): Library not loaded:
@rpath/libcfitsio.5.dylib
Referenced from: /Users/jurgen/anaconda3/envs/myenv/lib/python2.7/site-packages/gammalib/_app.so
Reason: image not found
```

#### Related issues:

Related to GammaLib - Bug # 2958: Correct cfitsio library dependency

Closed

07/15/2019

#### History

#1 - 04/26/2021 03:54 PM - Knödlseeder Jürgen

- Status changed from New to In Progress

- % Done changed from 0 to 10

Changing the order of the channels by specifying the channel with --add does not solve the issue:

```
$ conda config --remove channels conda-forge
```

```
$ conda config --remove channels cta-observatory
$ conda config --add channels conda-forge
$ conda config --add channels cta-observatory
```

This issue seems to be described here: <https://github.com/conda/conda/issues/2011>.

## #2 - 04/26/2021 03:57 PM - Knödseder Jürgen

- % Done changed from 10 to 20

Issue also described here:

<https://stackoverflow.com/questions/60973724/why-does-conda-not-install-the-most-recent-version-of-spyder-from-conda-forge>. I'm wondering where the only solution is to remove ctools 1.6.1 (and probably older) from Anaconda.

## #3 - 04/26/2021 03:59 PM - Knödseder Jürgen

- Related to Bug #2958: Correct cfitsio library dependency added

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

user#3 wrote:

I'm wondering where the only solution is to remove ctools 1.6.1 (and probably older) from Anaconda.

An alternative would be to build the old GammaLib packages again with the cfitsio version fixed, which includes

- 1.4.3
- 1.5.0
- 1.5.1
- 1.5.2
- 1.5.3
- 1.5.4
- 1.6.0
- 1.6.1

## #5 - 04/26/2021 05:39 PM - Knödseder Jürgen

This approach works as uploading a new package 1.6.1 with the cfitsio version fixed to 3.430 bumps the problem down to gammalib version 1.6.0. I will continue with that strategy.

## #6 - 04/26/2021 09:35 PM - Knödseder Jürgen

- % Done changed from 20 to 30

I also needed to fix the conda readline version to 7.0.

**#7 - 04/27/2021 09:43 AM - Knödseder Jürgen**

- % Done changed from 30 to 50

I updated all packages prior to version 1.6.2, fixing the cfitsio and readline version numbers. Now need to check whether installation always provides the latest package version on all supported Python versions.

**#8 - 04/27/2021 10:22 AM - Knödseder Jürgen**

- % Done changed from 50 to 90

I checked the proper installation of ctools version 1.7.3 using

```
conda install ctools
```

including testing of ctools and GammaLib for Python 2.7, 3.5, 3.6, 3.7 and 3.8. Everything works fine now. Note that Python 3.9 is not yet supported for ctools 1.7.3.

**#9 - 04/27/2021 11:51 AM - Knödseder Jürgen**

- Status changed from *In Progress* to *Closed*

- % Done changed from 90 to 100

I did the same checks for the gammalib package alone. Everything seems to work. Close the issue now.