

GammaLib - Action #3629

Update conda environment

04/29/2021 12:14 PM - Knödlseider Jürgen

Status:	Closed	Start date:	04/29/2021
Priority:	Normal	Due date:	
Assigned To:	Knödlseider Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2.0.0		
Description			
Before release 2.0 the conda environment should be updated. This includes updating the dependencies, since Python 3.9 does not support readline 7.0. Furthermore, the re-activation step after installing the package does not seem to be needed anymore. This should be verified. Eventually the conda version should be determined from which one this step is no longer needed.			

History

#1 - 06/04/2022 09:05 PM - Knödlseider Jürgen

- Project changed from ctools to GammaLib
- Assigned To set to Knödlseider Jürgen
- Target version changed from 2.0.0 to 2.0.0

This action seems more to relate to gammalib than ctools. The actual code supports already building for Python 3.9, the current Python version 3.10 should be added.

#2 - 06/04/2022 09:32 PM - Knödlseider Jürgen

- % Done changed from 0 to 10

I first tried building GammaLib for Python 3.9 on my Mac:

```
$ anaconda
$ conda build dev/conda.recipe --python=3.9
No numpy version specified in conda_build_config.yaml. Falling back to default numpy value of 1.16
WARNING:conda_build.metadata:No numpy version specified in conda_build_config.yaml. Falling back to default numpy value of 1.16
Adding in variants from internal_defaults
INFO:conda_build.variants:Adding in variants from internal_defaults
Adding in variants from /Users/jurgen/git/gammalib/gammalib/dev/conda.recipe/conda_build_config.yaml
INFO:conda_build.variants:Adding in variants from /Users/jurgen/git/gammalib/gammalib/dev/conda.recipe/conda_build_config.yaml
Adding in variants from config.variant
INFO:conda_build.variants:Adding in variants from config.variant
Attempting to finalize metadata for gammalib
INFO:conda_build.metadata:Attempting to finalize metadata for gammalib
Collecting package metadata (repodata.json): ...working... done
Solving environment: ...working... done
BUILD START: ['gammalib-2.0.0.dev-py39_1.tar.bz2']
Collecting package metadata (repodata.json): ...working...
Solving environment: ...working... done
Collecting package metadata (repodata.json): ...working...
Solving environment: ...working... done
```

Package Plan

environment location:

The following NEW packages will be INSTALLED:

bzip2: 1.0.8-h0d85af4_4 conda-forge

```
c-ares: 1.18.1-h0d85af4_0 conda-forge
ca-certificates: 2022.5.18.1-h033912b_0 conda-forge
cfitsio: 3.430-h50cca31_1002 conda-forge
curl: 7.83.1-h23f1065_0 conda-forge
krb5: 1.19.3-hb98e516_0 conda-forge
libcurl: 7.83.1-h23f1065_0 conda-forge
libcxx: 14.0.4-hc203e6f_0 conda-forge
libedit: 3.1.20191231-h0678c8f_2 conda-forge
libev: 4.33-haf1e3a3_1 conda-forge
libffi: 3.4.2-h0d85af4_5 conda-forge
libgfortran: 3.0.1-0 conda-forge
libnghttp2: 1.47.0-hca56917_0 conda-forge
libssh2: 1.10.0-hd3787cc_2 conda-forge
libzlib: 1.2.12-h6c3fc93_0 conda-forge
ncurses: 6.3-h96cf925_1 conda-forge
openssl: 3.0.3-hfe4f2af_0 conda-forge
pcre: 8.45-he49afe7_0 conda-forge
pip: 22.1.2-pyhd8ed1ab_0 conda-forge
python: 3.9.13-hf8d34f4_0_cpython conda-forge
python_abi: 3.9-2_cp39 conda-forge
readline: 8.1-h05e3726_0 conda-forge
setuptools: 62.3.2-py39h6e9494a_0 conda-forge
sqlite: 3.38.5-hd9f0692_0 conda-forge
swig: 4.0.2-hce5123c_2 conda-forge
tk: 8.6.12-h5dbffcc_0 conda-forge
tzdata: 2022a-h191b570_0 conda-forge
wheel: 0.37.1-pyhd8ed1ab_0 conda-forge
xz: 5.2.5-haf1e3a3_1 conda-forge
zlib: 1.2.12-h6c3fc93_0 conda-forge
```

```
Preparing transaction: ...working... done
Verifying transaction: ...working... done
Executing transaction: ...working... done
Source cache directory is: /Users/jurgen/anaconda3/conda-bld/src_cache
INFO:conda_build.source:Source cache directory is: /Users/jurgen/anaconda3/conda-bld/src_cache
INFO conda_build.source:download_to_cache(44): Source cache directory is: /Users/jurgen/anaconda3/conda-bld/src_cache
No hash (md5, sha1, sha256) provided for gmmalib-2.0.0.dev.tar.gz. Source download forced. Add hash to recipe to use source cache.
WARNING:conda_build.source:No hash (md5, sha1, sha256) provided for gmmalib-2.0.0.dev.tar.gz. Source download forced. Add hash to recipe
to use source cache.
WARNING conda_build.source:download_to_cache(61): No hash (md5, sha1, sha256) provided for gmmalib-2.0.0.dev.tar.gz. Source download
forced. Add hash to recipe to use source cache.
Downloading source to cache: gmmalib-2.0.0.dev.tar.gz
INFO:conda_build.source:Downloading source to cache: gmmalib-2.0.0.dev.tar.gz
INFO conda_build.source:download_to_cache(69): Downloading source to cache: gmmalib-2.0.0.dev.tar.gz
Downloading http://cta.irap.omp.eu/ctools/releases/gmmalib/gmmalib-2.0.0.dev.tar.gz
INFO:conda_build.source:Downloading http://cta.irap.omp.eu/ctools/releases/gmmalib/gmmalib-2.0.0.dev.tar.gz
INFO conda_build.source:download_to_cache(83): Downloading http://cta.irap.omp.eu/ctools/releases/gmmalib/gmmalib-2.0.0.dev.tar.gz
Success
INFO:conda_build.source:Success
INFO conda_build.source:download_to_cache(94): Success
Extracting download
source tree in: /Users/jurgen/anaconda3/conda-bld/gmmalib_1654369742112/work
export
```

```
export SRC_DIR=/Users/jurgen/anaconda3/conda-bld/gmmalib_1654369742112/work
...
... (compiling) ...
...
#####
Resource usage summary:

Total time: 0:18:43.0
CPU usage: sys=0:00:09.0, user=0:03:12.5
Maximum memory usage observed: 416.3M
Total disk usage observed (not including envs): 557.6K
```

Following the build I tested the conda build:

```
$ conda create -n gmmalib-devel-test python=3.9
$ conda activate gmmalib-devel-test
```

```
$ conda install --use-local gammadlib=2.0.0.dev
$ python
Python 3.9.13 | packaged by conda-forge | (main, May 27 2022, 17:01:00)
[Clang 13.0.1 ] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> import gammadlib
>>>
```

This worked successfully.

#3 - 06/04/2022 10:35 PM - Knödseder Jürgen

- *Status changed from New to Pull request*
- *% Done changed from 10 to 90*

I repeated the check for Python 3.10, and did similar tests for ctools. All worked out fine.

#4 - 06/04/2022 10:52 PM - Knödseder Jürgen

- *Status changed from Pull request to Closed*
- *% Done changed from 90 to 100*

Merged into devel.