### GammaLib - Feature #2190

# Add GammaLib code generator

09/02/2017 05:37 PM - Knödlseder Jürgen

Status:In ProgressStart date:09/02/2017

Priority: Normal Due date:

**Assigned To:** Knödlseder Jürgen % **Done:** 50%

Category: Estimated time: 0.00 hour

Target version:

Description

A code generation script should be added to automatically generate new classes, and in particular new instrument modules.

### History

#### #1 - 09/03/2017 03:56 AM - Knödlseder Jürgen

- % Done changed from 0 to 50

I made good progress with the code generator, and now a first script is available. It's called codegen.py and it's in dev. The script is able to create a new instrument module (or to append missing classes to an existing instrument module), including the creation of unit tests. Here is how it works:

\$ make clean

\$ dev/codegen.py

### GammaLib code generator

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- [1] Add instrument module
- [2] Add spectral model
- [3] Add spatial model
- [4] Add temporal model
- [4] Add generic class

[q] Quit

Enter your choice: 1

## Add instrument module

Please enter a 3 digit-name for the module: dmp

Please enter the instrument name (e.g. "Fermi/LAT"): DAMPE

Please enter your name (e.g. "Joe Public"): Joe Public's friend

All right. Have now:
Module name .....: "dmp"
Instrument name .: "DAMPE"
Your name .....: "Joe Public's friend"

Is this correct? (y/n): y

All right. You want a new "dmp" instrument module.

Do you want event list support? (y/n): y

Do you want binned event data support? (y/n): y

- [1] Add instrument module
- [2] Add spectral model
- [3] Add spatial model
- [4] Add temporal model
- [4] Add generic class

[q] Quit

Enter your choice: q

\$ autoconf

\$ automake

\$ ./configure

\$ make

\$ make check

and you have a brand new DAMPE instrument interface compiled and tested. Following that you can start implementing.

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# #2 - 09/03/2017 09:00 PM - Knödlseder Jürgen

The current version of the code generator is already merged into devel.

# #3 - 10/11/2017 09:00 PM - Knödlseder Jürgen

- Status changed from New to In Progress

### #4 - 01/27/2018 05:28 PM - Knödlseder Jürgen

- Target version deleted (1.5.0)

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