

## GammaLib - Change request #563

### Derive all GammaLib classes from GBase

10/13/2012 04:46 PM - Knödlseider Jürgen

<b>Status:</b>	Closed	<b>Start date:</b>	10/13/2012
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assigned To:</b>	Knödlseider Jürgen	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
An interface class GBase should be introduced from which all other GammaLib classes derive. This makes sure that all GammaLib classes implement the required interfaces.			

#### History

##### #1 - 10/13/2012 05:26 PM - Knödlseider Jürgen

- Status changed from New to In Progress

- % Done changed from 0 to 30

Here the list of classes for which GBase is **not** (yet) used:

##### **Not yet used as we may introduce a generic GRegistry base class:**

GModelRegistry.hpp (clone & clear missing)  
GModelSpatialRegistry.hpp (clone & clear missing)  
GModelSpectralRegistry.hpp (clone & clear missing)  
GModelTemporalRegistry.hpp (clone & clear missing)  
GObservationRegistry.hpp (clone & clear missing)  
GWcsRegistry.hpp (clone & clear missing)

##### **The following classes will not derive from GBase:**

GException.hpp  
GFunction.hpp (to be discussed)  
GIntegrand.hpp (to be discussed)  
GOptimizerFunction.hpp (to be discussed)  
GLog.hpp (to be discussed)  
GTestSuite.hpp (to be discussed)

##### #2 - 10/13/2012 05:26 PM - Knödlseider Jürgen

In principle, the friend functions used for printing can now be put in the base class. This removes quite a bunch of code !!!

##### #3 - 10/13/2012 05:56 PM - Knödlseider Jürgen

To handle printing by the base class, a new base module has been introduced that implements the os and GLog streamers on the GBase level. We can thus proceed now to remove all the streamers from the classes.

**#4 - 10/13/2012 11:08 PM - Knödseder Jürgen**

I removed the ostream and GLog friends from the classes. The ostream and GLog functions are now implement on the level of the base module, and take GBase as a reference argument. Implementation at the class level is not more required.

**#5 - 10/14/2012 10:06 PM - Knödseder Jürgen**

- % Done changed from 30 to 70

**#6 - 11/01/2012 06:45 AM - Knödseder Jürgen**

- Status changed from In Progress to Closed

- % Done changed from 70 to 100

Almost all GammaLib classes now derive from GBase.