GammaLib - Change request #1102

Clean-up calibration database handling

01/24/2014 10:30 AM - Knödlseder Jürgen

Status:	Closed	Start date:	01/24/2014
Priority:	Normal	Due date:	
Assigned To:	Knödlseder Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	00-09-00		
Description			
Currently the calibra	ion database handling is not very clean.		
CALDB environment	GAMMALIB_CALDB environment variable t variable that is setup by the ctools configura and CALDB and gives precedence for GAM	tion script. The Gamma	aLib GCaldb class handles
ctools should howev	er not use CALDB, as this may result in confl	icts with the Fermi Scie	enceTools.
	n own calibration database environment varia to catch this. This isn't very clean.	able CTOOLS_CALDB	, but then some specific code needs to be
	could use the GAMMALIB_CALDB environments of example when GammaLib was installed by a		
the standard anyway	e're left with having only a single CALDB envi rs. The conflict with the Fermi ScienceTools a bry. Once we package the relevant response	arises when Fermi resp	onse functions are needed but not available
Another issue is that	the caldb path is not set properly so far. Actu	ually, the expected stru	cture
\$CALDB/data/ <miss \$CALDB/data/<miss< td=""><td>ion>/<instrument></instrument></td><th></th><td></td></miss<></miss 	ion>/ <instrument></instrument>		
\$GAMMALIB_CALD \$GAMMALIB_CALD	B/data/ <mission>/<instrument></instrument></mission>		
\$GAMMALIB_CALD		responses classes do r	not use the appropriate GCaldb::path()
\$GAMMALIB_CALD	B/data/ <mission>/<instrument></instrument></mission>	responses classes do r	not use the appropriate GCaldb::path()

#1 - 01/30/2014 02:16 AM - Knödlseder Jürgen

- Status changed from New to In Progress

- Assigned To set to Knödlseder Jürgen

- Target version set to 2nd coding sprint

- % Done changed from 0 to 10

A method needs to be added that returns the full path to a calibration file using the following selection parameters

- CAL_CLAS
- CAL_DTYP
- CAL_CNAM
- CAL_CDB

(additional flags may be added later).

For CAL_CLAS, CAL_DTYP and CAL_CNAM, we may just check whether the strings are identical (checks are only done if the selection strings are

For CAL_CDB, we could test for identity in one of the fields. I guess that in reality, some complex syntax applies.

#2 - 01/31/2014 01:29 AM - Knödlseder Jürgen

- % Done changed from 10 to 80

The GCaldb class now makes use of the calibration index file. Response file selection is now based on the index file, allowing the use of 2D response functions in the ctools. A dummy 2D response has been added to GammaLib for testing.

#3 - 07/19/2014 02:12 AM - Knödlseder Jürgen

- Status changed from In Progress to Resolved
- Target version changed from 2nd coding sprint to 00-09-00
- % Done changed from 80 to 100

For me this look like finished.

#4 - 07/20/2014 11:25 PM - Knödlseder Jürgen

- Status changed from Resolved to Closed