

ctools - Bug #2171

csresmap fails when a residual map is computed for a counts cube and a model containing a diffuse map or cube

07/27/2017 05:32 PM - Knödseder Jürgen

Status:	Closed	Start date:	07/27/2017
Priority:	Immediate	Due date:	
Assigned To:	Knödseder Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	1.4.0		
Description			
<p>When computing a residual map using csresmap for a counts cube and a model containing a diffuse map or cube the script exists with the following error:</p> <p>Traceback (most recent call last): File "/usr/local/gamma/bin/csresmap", line 367, in <module> app.execute() File "/usr/local/gamma/bin/csresmap", line 287, in execute self.run() File "/usr/local/gamma/bin/csresmap", line 214, in run model.run() File "/usr/local/gamma/lib/python2.7/site-packages/ctools/tools.py", line 1532, in run return _tools.ctmodel_run(self) IndexError: *** ERROR in GSkyMap::operator(int&, int&): Sky map pixel index -1 is outside the valid range [0,89999].</p> <p>The error arises due to the new model computation in ctmodel. The diffuse map or cube model computation for a stacked analysis makes use of the GCTAResponseCube class which caches the diffuse model using the GCTAEventBin::ipix() and GCTAEventBin::ieng() method. Since the values of these indices is not set by ctmodel, but left at -1, an error occurs.</p> <p>The problem should be solved by correctly setting the indices in ctmodel. This requires adding index setter methods to GCTAEventBin.</p>			

History

#1 - 07/27/2017 05:59 PM - Knödseder Jürgen

- % Done changed from 0 to 80

Adding GCTAEventBin::ipix() and GCTAEventBin::ieng() setter methods and setting the pixel and energy index in ctmodel solved the problem.

#2 - 07/27/2017 06:35 PM - Knödseder Jürgen

- Status changed from In Progress to Closed

- % Done changed from 80 to 100

Merged into devel branches of GammaLib and ctools.

#3 - 07/28/2017 07:51 PM - Knödseder Jürgen

- Related to Feature #2142: GGti::exclude(tstart,tstop) added

#4 - 07/28/2017 07:51 PM - Knödseder Jürgen

- Related to deleted (Feature #2142: GGti::exclude(tstart,tstop))