

GammaLib - Action #1137

Action # 1096 (Closed): BackgroundModel from IRF

Bug Fix for the new GCTAModelBackground constructor

02/07/2014 11:13 AM - Gerard Lucie

Status:	Closed	Start date:	02/07/2014
Priority:	Immediate	Due date:	
Assigned To:	Gerard Lucie	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	00-09-00		
Description			
<p>Some bugs have been found in relation with the following new GCTAModelBackground constructor: GCTAModelBackground::GCTAModelBackground(const GCTAObservation& obs, const std::string& filename, const GModelSpectral& spectral, const int& nx_sky, const int& ny_sky, const int& n_energy)</p> <p>and the related function</p> <pre>void GCTAModelBackground::set_spatial(const GCTAObservation& obs, const std::string& filename, const int& nx_sky, const int& ny_sky, const int& n_energy)</pre> <p>The needed fix are:</p> <ul style="list-style-type: none">- in the constructor: initialisation of m_temporal- in set_spatial: correct filling of the GEnergies in the case m_energy=0- in @set_spatial: add GException in case nx_sky or ny_sky or n_energy is <0 (not really a bug but taken care of here anyway)			

History

#1 - 02/07/2014 11:23 AM - Mayer Michael

While looking through the code I also found a small bug in set_spatial which causes all GEnergies to have the same value. In line 1094f.:

```
GEnergy emin(background.axis_lo(2,0), unit_lo);  
GEnergy emax(background.axis_hi(2,background.axis(2)-1), unit_hi);
```

should probably be changed to

```
GEnergy emin(background.axis_lo(2,i), unit_lo);  
GEnergy emax(background.axis_hi(2,i), unit_hi);
```

#2 - 02/07/2014 11:24 AM - Gerard Lucie

that's what I meant but the second fix needed smile.png

#3 - 02/07/2014 11:26 AM - Mayer Michael

oh yes, sorry :). Great that we found the same one

#4 - 02/07/2014 11:42 AM - Gerard Lucie

- Status changed from *New* to *Pull request*

branch 1137_GCTAModelBackground_bug_fix have been created. Previously mentioned fix are implemented there.

#5 - 02/08/2014 10:06 PM - Knödseder Jürgen

Have you pushed the branch into the repository? I cannot see it ...

#6 - 02/09/2014 09:49 AM - Gerard Lucie

The push command was not the full one...

With "git push origin 1137_GCTAModelBackground_bug_fix" the branch should now be there, hopefully.

#7 - 02/09/2014 10:48 PM - Knödseder Jürgen

- Status changed from *Pull request* to *Feedback*

- Target version set to *2nd coding sprint*

- % Done changed from *0* to *100*

Got it. Merged into devel.

#8 - 07/19/2014 02:13 AM - Knödseder Jürgen

- Status changed from *Feedback* to *Resolved*

- Target version changed from *2nd coding sprint* to *00-09-00*

#9 - 07/20/2014 11:24 PM - Knödseder Jürgen

- Status changed from *Resolved* to *Closed*

- Remaining (hours) set to *0.0*