

GammaLib - Bug #1586

Check existence of files in CTA IRF loading

11/29/2015 08:17 AM - Knödlseider Jürgen

<b>Status:</b>	Closed	<b>Start date:</b>	11/29/2015
<b>Priority:</b>	Normal	<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>			
The following commands that provide an invalid IRF result in an error message that is not very informative. Proper checking of the IRF existence should be implemented.			
<pre>\$ ctobssim RA of pointing (degrees) (0-360) [267.68]] 83.63 Dec of pointing (degrees) (-90-90) [-29.6] 22.01 Radius of FOV (degrees) (0-180) [5.0] Start time (MET in s) [0.0] End time (MET in s) [34200] 1800.0 Lower energy limit (TeV) [0.1] Upper energy limit (TeV) [100.0] Calibration database [prod2] /usr/local/gamma/share/caldb/data/cta Instrument response function [South_50h] prod2/bcf/South_50h Model [model_ics_small.xml] \$CTOOLS/share/models/crab.xml Output event data file or observation definition file [events.fits] *** ERROR encountered in the execution of ctobssim. Run aborted ... *** ERROR in GNodeArray::interpolate(double&amp;, std::vector&lt;double&gt;&amp;): Not enough nodes in node array (0 nodes).</pre>			

History

#1 - 12/02/2015 09:48 PM - Knödlseider Jürgen

- Status changed from New to Pull request
- Assigned To set to Knödlseider Jürgen
- % Done changed from 0 to 100

I added some code to the CTA response loader methods that first checks whether the response files do exist. Now, the above example gives the following result:

```
$ ctobssim
RA of pointing (degrees) (0-360) [83.63]
Dec of pointing (degrees) (-90-90) [22.01]
Radius of FOV (degrees) (0-180) [5.0]
Start time (MET in s) [0.0]
End time (MET in s) [1800.0]
Lower energy limit (TeV) [0.1]
Upper energy limit (TeV) [100.0]
Calibration database [prod2] /usr/local/gamma/share/caldb/data/cta
Instrument response function [South_50h] prod2/bcf/South_50h
*** ERROR encountered in the execution of ctobssim. Run aborted ...
*** ERROR in GCTAResponseIrf::load_aeff(std::string&): File error. File "/usr/local/gamma/share/caldb/data/cta/prod2/bcf/South_50h" not found.
Please specify a valid effective area response file.
```

**#2 - 12/02/2015 10:21 PM - Knödseder Jürgen**

*- Status changed from Pull request to Closed*

Merged into devel.