

ctools - Bug #2448

csrespec fails when a precomputed model cube is passed as modcube argument

04/12/2018 07:12 PM - Di Venere Leonardo

Status:	Closed	Start date:	04/12/2018
Priority:	Normal	Due date:	
Assigned To:	Di Venere Leonardo	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	1.6.0		
Description			
csrespec fails when a precomputed model cube is passed as modcube argument. Here is an example:			
<pre>>>> csrespec Input event list, counts cube, or observation definition XML file [ctbin.fits] Input exposure cube file [ctexpcube.fits] Input PSF cube file [ctpsfcube.fits] Input background cube file [ctbkgcube.fits] Input model cube file (generated with ctmodel) [ctmodel.fits] Mask data to calculate residuals in ROI? [no] Residuals computation algorithm (SUB SUBDIV SUBDIVSQRT SIGNIFICANCE) [SIGNIFICANCE] Output residual spectrum file [] test_csrespec.fits Input model definition XML file [input_model.xml] Traceback (most recent call last): File "/lustrehome/exp_soft/cta/ctools/instdir-1.5.0/gamma/bin/csrespec", line 739, in <module> app.execute() File "/lustrehome/exp_soft/cta/ctools/instdir-1.5.0/gamma/lib/python2.7/site-packages/ctools/tools.py", line 1072, in _execute self.run() File "/lustrehome/exp_soft/cta/ctools/instdir-1.5.0/gamma/bin/csrespec", line 570, in run modcube = gammalib.GCTAEventCube(self['inmodel'].filename()) File "/lustrehome/exp_soft/cta/ctools/instdir-1.5.0/gamma/lib/python2.7/site-packages/gammalib/cta.py", line 496, in __init__ this = _cta.new_GCTAEventCube(*args) RuntimeError: *** ERROR in GFits::open(GFilename&, bool&): Unable to open FITS file "TeV_J1224_results_fit_NEW_EDISP/TeV_J1224_binned_TeV_J1224_binned_TeV_J1224_PL_GALbkg_bkgmodel_edisp_fit.xml" (status=104)</pre>			

History

#1 - 04/12/2018 07:21 PM - Di Venere Leonardo

- % Done changed from 0 to 80

The reason of the error is a wrong argument queried at line 570 in the script csrespec.py :
The original line is:

```
modcube = gammalib.GCTAEventCube(self['inmodel'].filename())
```

The correct line should be:

```
modcube = gammalib.GCTAEventCube(self['modcube'].filename())
```

I checked that with this new line the error disappears.

I can create a new branch and push the bug fix, if necessary.

#2 - 04/12/2018 07:22 PM - Di Venere Leonardo

- Status changed from New to Feedback

#3 - 04/12/2018 07:43 PM - Di Venere Leonardo

- Status changed from Feedback to Pull request

- % Done changed from 80 to 100

I pushed the bug fix to a new branch:

ctools repo: git@cta-gitlab.irap.omp.eu:divenere/ctools.git

ctools branch: 2448-csrespec-bugfix

#4 - 06/05/2018 04:42 PM - Knödseder Jürgen

- Status changed from Pull request to Closed

- Assigned To set to Di Venere Leonardo

- Target version set to 1.6.0

Code merged into devel