

GammaLib - Bug #1611

Unable to use numbers in FITS extension names

01/04/2016 01:49 PM - Knödlseeder Jürgen

Status:	Closed	Start date:	01/04/2016
Priority:	Normal	Due date:	
Assigned To:	Knödlseeder Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:			

Description

Christoph Deil reported that he is unable to use numbers in FITS extension names:

```
In [15]: psf = gammalib.GCTAPsf2D('hess_psf_023523.fits.gz[PSF_2D]')
```

```
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RuntimeError                                Traceback (most recent call last)  
<ipython-input-15-e694cf9602ee> in <module>()  
----> 1 psf = gammalib.GCTAPsf2D('hess_psf_023523.fits.gz[PSF_2D]')  
  
/usr/local/gamma/lib/python3.4/site-packages/gammalib/cta.py in __init__(self, *args)  
 2853     __init__(GCTAPsf2D self, GCTAPsf2D psf) -> GCTAPsf2D  
 2854     """  
> 2855     this = _cta.new_GCTAPsf2D(*args)  
 2856     try:  
 2857         self.this.append(this)
```

RuntimeError: *** ERROR in GFits::at(std::string&): HDU "POINT SPREAD FUNCTION" not found in FITS file

```
In [14]: gammalib.GCTAResponseIrf().load_psf('hess_psf_023523.fits.gz[PSF_2D]')
```

```
-----  
RuntimeError                                Traceback (most recent call last)  
<ipython-input-14-77132b2a0315> in <module>()  
----> 1 gammalib.GCTAResponseIrf().load_psf('hess_psf_023523.fits.gz[PSF_2D]')  
  
/usr/local/gamma/lib/python3.4/site-packages/gammalib/cta.py in load_psf(self, filename)  
 1582     def load_psf(self, filename):  
 1583         """load_psf(GCTAResponseIrf self, std::string const & filename)"""  
> 1584         return _cta.GCTAResponseIrf_load_psf(self, filename)  
 1585  
 1586
```

RuntimeError: *** ERROR in GCTAResponseIrf::load_psf(std::string&): File error. FITS file "hess_psf_023523.fits.gz[PSF_2D]" does not contain a valid point spread function table. Please specify a valid point spread function response file.

History

#1 - 01/04/2016 02:59 PM - Knödlseeder Jürgen

- Status changed from New to Feedback

- % Done changed from 0 to 100

I modified the GFilename::set_filename() method so that numbers in extension names are correctly handled.

#2 - 01/04/2016 03:52 PM - Mayer Michael

Happy new year! I have tested the new code and it works just fine - thanks.

#3 - 01/05/2016 06:28 PM - Knödseder Jürgen

- Status changed from Feedback to Closed