

ctools - Bug #901

Error with Fermi LAT caldb in ctools

06/12/2013 03:33 PM - Schulz Anneli

Status:	New	Start date:	06/12/2013
Priority:	Normal	Due date:	
Assigned To:	Knödlseeder Jürgen	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
If you have an old version of ctools and update to a new one you might get the following error:			
RuntimeError: *** ERROR in GFits::open(std::string&): Unable to open FITS file "/Users/schulz/software/ctools/share/caldb/data/glast/lat/bcf/ea/aeff_P7SOURCE_V6_front.fits" (status=104)			
the problem is that the CALDB for fermi lat is no longer in the ctools but in gammalib. so you have to adapt the \$CALDB path and include the gammalib caldb path:			
export CALDB=\$GAMMALIB/share/caldb/:\$CALDB			

History

#1 - 06/12/2013 03:54 PM - Schulz Anneli

- Description updated

#2 - 06/12/2013 05:33 PM - Schulz Anneli

This also leads to the fact that the example scripts (\$CTOOLS/share/examples/python/make_unbinned_analysis.py and ...binned...) in python don't work anymore with the default parameters since the paths are wrongly specified.

First you have to adjust the IRF name to a filename which is in \$GAMMALIB/share/caldb/cta/
e.g. from "cta_dummy_irf" to "kb_A_50h_v3"
(Alternatively copy cta_dummy_irf from \$CTOOLS... to \$GAMMALIB...)

Second you need to adjust the model path: from model_name="\$GAMMALIB/share/models/crab.xml" to "\$CTOOLS/share/models/crab.xml"
and in model.xml: from "\$GAMMALIB/share/models/bkg_dummy.txt" to "\$CTOOLS/share/models/bkg_dummy.txt"
(Alternatively you can just decide to have the models folder also in \$GAMMALIB/share/)

#3 - 06/13/2013 06:02 PM - Knödlseeder Jürgen

- Assigned To set to Knödlseeder Jürgen

Can you try using

```
GAMMALIB_CALDB=/usr/local/gamma/share/caldb
```

In fact, GAMMALIB_CALDB takes now precedence over CALDB to avoid conflicts with the Fermi Science Tools.

But I guess your problem is more related to the fact that you installed gammalib and ctools in different paths, which is likely not tested in detail. I'll look

into this when I find some time.