## ctools - Change request #2295

## Use CTA time reference in obsutils for observation creation

01/09/2018 03:12 PM - Knödlseder Jürgen

Status: Closed Start date: 01/09/2018

Priority: Normal Due date:

Assigned To: Knödlseder Jürgen % Done: 100%

Category: Estimated time: 0.00 hour

Target version: 1.5.0

#### **Description**

So far, the following code produces an observation with a reference time at the GammaLib time reference:

>>> import gammalib

>>> import ctools

>>> from cscripts import obsutils

>>> obs = obsutils.set obs(gammalib.GSkyDir(),0.0,1800.0,1.0,1.0,100.0,5.0,'South 50h','prod2',")

>>> print(obs.gti())

=== GGti ===

Number of intervals ......: 1

Ontime .....: 1800 sec Elapsed time ....: 1800 sec

Reference MJD .....: 55197.0007660185

Instead, the CTA reference time should be used.

### History

#### #1 - 01/09/2018 04:37 PM - Knödlseder Jürgen

- Status changed from New to Pull request
- % Done changed from 0 to 100

The GTI time reference is now set to the CTA time reference in GCTAEventList, GCTAEventCube and GCTACubeExposure.

Furthermore, the CTA time reference has been introduced as a constant in ctools, accessible via ctools::time\_reference in C++ and ctools:time\_reference under Python. The ctools::time\_reference() method has been removed, the time reference is no longer a property of a ctool.

The time reference is now used in obsutils to set an observation with the CTA time reference. The above code gives now:

>>> print(obs.gti())
=== GGti ===

Number of intervals .....: 1
Ontime .....: 1800 sec
Elapsed time ....: 1800 sec

MJD range .....: 51544.5 - 51544.5208333333 s (TT)

UTC range .....: 2000-01-01T11:58:56 - 2000-01-01T12:28:56 s (TT)

Reference MJD .....: 51544.5

04/29/2024 1/2

# #2 - 01/09/2018 05:38 PM - Knödlseder Jürgen

- Status changed from Pull request to Closed

Merged into devel.

04/29/2024 2/2