

GammaLib - Action #650

Feature # 284 (Closed): Rethink the definition of the GTime class

Add GTimeReference class

12/16/2012 09:18 PM - Knödseder Jürgen

Status:	Closed	Start date:	07/07/2012
Priority:	Normal	Due date:	
Assigned To:	Knödseder Jürgen	% Done:	100%
Category:		Estimated time:	8.00 hours
Target version:	00-07-00		
Description			

History

#1 - 12/16/2012 09:26 PM - Knödseder Jürgen

The GTimeReference class should implement a time reference system.

m_mjdref Reference MJD (days).
m_timeunit Time unit ("s", "d", "sec(s)", "day(s)").
m_timesys Time system
m_timeref Time reference

#2 - 12/17/2012 11:16 AM - Knödseder Jürgen

- Status changed from New to In Progress

#3 - 12/17/2012 10:51 PM - Knödseder Jürgen

- Status changed from In Progress to Feedback

- % Done changed from 0 to 100

- Remaining (hours) changed from 8.0 to 0.0

A time reference class GTimeReference has been created.

This class mainly manages the time reference parameters, which for the moment are 4:

- The reference Modified Julian Day (MJD)
- The time unit (seconds or days)
- The time system (TT or UTC)
- The time reference (LOCAL)

So far, the time system and reference are not yet used by the GTime class. No checking is performed on the possible values by GTimeReference so far.

The class also provides read() and write() methods to read and write the time reference from a FITS HDU header. The format is OGIP compliant.

There is also a constructor that allows creating a reference from a FITS HDU header.

#4 - 12/20/2012 11:30 PM - Knödseder Jürgen

- *Status changed from Feedback to Closed*