

GammaLib - Feature #653

Add leap second handling to GTime class.

12/17/2012 10:46 PM - Knödseder Jürgen

Status:	Closed	Start date:	12/17/2012
Priority:	Normal	Due date:	
Assigned To:	Knödseder Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	00-09-00		
Description			
So far, conversion between TT and UTC is not managed by GTime. Also, no routines exist to print the time in string format. Both features should be added.			
For this, we have to see how we deal with leap seconds:			
<ol style="list-style-type: none">1. Hardwired?2. Provided in a file?			

History

#1 - 10/11/2014 09:10 PM - Knödseder Jürgen

- File *XTime.h* added
- File *XTime.cc* added
- File *UTC, GPS, TAI, and Unix-C times..pdf* added
- Status changed from *New* to *In Progress*
- Assigned To set to *Knödseder Jürgen*

Attached some files that describe the problematic and that give some code examples. I will try to adapt attachment:*XTime.cc* in the *GTime* class.

#2 - 10/12/2014 01:16 AM - Knödseder Jürgen

- Status changed from *In Progress* to *Closed*
- Target version set to *00-09-00*
- % Done changed from *0* to *100*

Implement *GTime::utc()* methods to set and retrieve the time as a string in the UTC time system.

Leap seconds are hard-wired and need a regular update of the code.

Files

<i>XTime.h</i>	20 KB	10/11/2014	Knödseder Jürgen
<i>XTime.cc</i>	30.3 KB	10/11/2014	Knödseder Jürgen
<i>UTC, GPS, TAI, and Unix-C times..pdf</i>	192 KB	10/11/2014	Knödseder Jürgen