

GammaLib - Feature #653

Add leap second handling to GTime class.

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

<b>Status:</b>	Closed	<b>Start date:</b>	12/17/2012
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>	Knödseder Jürgen	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	00-09-00		
<b>Description</b> 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:  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

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