

GammaLib - Bug #4030

Fix GGti insert() and merge() methods

04/14/2022 03:58 PM - Knödlseeder Jürgen

Status:	Closed	Start date:	04/14/2022
Priority:	Immediate	Due date:	
Assigned To:	Knödlseeder Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2.0.0		
Description			
The GGti::insert does not insert correctly the time interval in the already existing intervals, and the GGti::merge method does not update the attributes correctly.			

History

#1 - 04/14/2022 04:00 PM - Knödlseeder Jürgen

- % Done changed from 0 to 10

I changed the code from

```
void GGti::insert(const GTime& tstart, const GTime& tstop)
{
    // Determine index at which GTI should be inserted
    int inx = 0;
    for (int i = 0; i < m_num; ++i) {
        if (tstart < m_start[i]) {
            break;
        }
    }

    // Insert interval
    insert_gti(inx, tstart, tstop);

    // Return
    return;
}
```

to

```
void GGti::insert(const GTime& tstart, const GTime& tstop)
{
    // Determine index at which GTI should be inserted
    int inx = 0;
    for (; inx < m_num; ++inx) {
        if (tstart < m_start[inx]) {
            break;
        }
    }

    // Insert interval
    insert_gti(inx, tstart, tstop);

    // Return
    return;
}
```

so that inx is indeed set to the correct index. Before, inx was always zero.

#2 - 04/14/2022 04:01 PM - Knödseder Jürgen

- % Done changed from 10 to 20

I added

```
// Update attributes  
set_attributes();
```

at the end of the GGti::merge method so that attributes get correctly updated.

#3 - 04/21/2022 02:25 PM - Knödseder Jürgen

- Status changed from In Progress to Closed

- % Done changed from 20 to 100

Merged into devel.