

GammaLib - Bug #3552

Avoid FITS rounding errors in GWcs::compare method

02/24/2021 12:50 PM - Knödseder Jürgen

Status:	Closed	Start date:	02/24/2021
Priority:	Immediate	Due date:	
Assigned To:	Knödseder Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	2.0.0		
Description			
When writing and reading back the WCS definition from a FITS file rounding errors may occur in GWcs::compare due to the finite precision of floating point values in the FITS header. A tolerance should be added for the comparison of two floating point values.			

History

#1 - 02/24/2021 02:54 PM - Knödseder Jürgen

- Status changed from New to Pull request
- % Done changed from 0 to 90

I added the gammalib::compare() function to compare two floating point values with tolerance. However, I could not reproduce the issue with the WCS definition rounding errors, hence I did not implement any modification of the WCS comparison methods.

#2 - 02/24/2021 03:41 PM - Knödseder Jürgen

- Status changed from Pull request to Closed
- % Done changed from 90 to 100

Merged into devel.