

CoCoALib - Bug #1411

IsPrimary sometimes wrong

03 Feb 2020 13:45 - John Abbott

Status:	Closed	Start date:	03 Feb 2020
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	Maths Bugs	Estimated time:	1.25 hour
Target version:	CoCoALib-0.99700	Spent time:	1.20 hour
Description			
The IsPrimary sometimes gives a wrong result.			
Here is an instance:			
<pre>p:=2; K:=ZZ/(p); Use R:=K[x,y]; J:=ideal(x^2, y^2 +y +1); IsPrimary(J); --> incorrectly gives false</pre>			
Reported by email; simplified by Robbiano.			
Related issues:			
Related to CoCoALib - Design #1409: myTestIsPrimary & Co. : fix design		Closed	03 Feb 2020
Related to CoCoALib - Design #1409: myTestIsPrimary & Co. : fix design		Closed	03 Feb 2020

History

#1 - 03 Feb 2020 14:43 - John Abbott

- Status changed from New to Resolved
- Assignee set to John Abbott
- % Done changed from 0 to 70
- Estimated time set to 1.50 h

I think it is OK now.

The problem was in SparsePolyOps-ideal-ZeroDim.C around line 295. The result was computed but not set by myAssignPrimaryFlag. Added the call to myAssignPrimaryFlag. Seems to work now.

#2 - 03 Feb 2020 15:40 - Anna Maria Bigatti

- Related to Design #1409: myTestIsPrimary & Co. : fix design added

#3 - 03 Feb 2020 15:40 - John Abbott

- Related to Design #1409: myTestIsPrimary & Co. : fix design added

#4 - 03 Feb 2020 15:42 - John Abbott

- Status changed from Resolved to Closed
- % Done changed from 70 to 100
- Estimated time changed from 1.50 h to 1.25 h

This was a duplicate of [#1409](#); server problems in Genoa meant I didn't know/notice that Anna had already resolved this.

Closing this issue; letting [#1409](#) deal with completion.