CoCoALib - Design #1422

Remove flag IhaveGBasisValue?

25 Feb 2020 16:15 - Anna Maria Bigatti

Status:	In Progress	Start date:	25 Feb 202	25 Feb 2020	
Priority:	Normal	Due date:			
Assignee:	Anna Maria Bigatti	% Done:	10%	10%	
Category:	Data Structures	Estimated time:	0.00 hour	0.00 hour	
Target version:	CoCoALib-0.99880	Spent time:	0.40 hour		
Description					
As often happens, storing twice an information may lead to problems. We have the fields IhaveGBasisValue and myGBasisValue. Currently we cannot have myGBasisValue not empty which is not a valid GBasis. So, what's the point in having IhaveGBasisValue?					
Check well, and decide.					
Related issues:					
Related to CoCoA-5 - Bug #1420: IdealOfProjectivePoints and MinGens: problem			Closed	18 Feb 2020	
Related to CoCoALib - Design #924: FlagManager for bool/bool3 flags			New	19 Sep 2016	
Related to CoCoALib - Design #1255: Ideals with trivial GBasis			New	11 Mar 2019	

History

#1 - 25 Feb 2020 16:16 - Anna Maria Bigatti

- Related to Bug #1420: IdealOfProjectivePoints and MinGens: problem with CoCoA_ASSERT added

#2 - 25 Feb 2020 16:16 - Anna Maria Bigatti

- Related to Design #924: FlagManager for bool/bool3 flags added

#3 - 25 Feb 2020 17:50 - John Abbott

Some notes:

- if the ideal is zero then the GBasis is empty (but correct)
- if our impl assumes that non-empty gbasis means that it is correct and complete then this must be clearly documented!

#4 - 25 Feb 2020 17:50 - John Abbott

- Related to Design #1255: Ideals with trivial GBasis added

#5 - 26 Feb 2020 11:30 - John Abbott

- Status changed from New to In Progress

IMPORTANT When the task is almost finished, we must review the impl of SparsePolyRingBase::IdealImpl::myGBasis.

#6 - 03 Nov 2021 20:07 - John Abbott

We should see who uses the flag IHaveGBasis. Presumably it could be replaced by a function which returns true if the ideal is 0 or if myGBasisValue is not empty.

Is this an issue we can resolve quickly and easily... here "we" probably means Anna ;-)

#7 - 28 Jan 2022 13:05 - Anna Maria Bigatti

- Target version changed from CoCoALib-0.99800 to CoCoALib-0.99850

#8 - 16 Feb 2024 17:56 - John Abbott

- Target version changed from CoCoALib-0.99850 to CoCoALib-0.99880