CoCoALib - Feature #1742

MinGens could be faster

18 May 2023 13:44 - Anna Maria Bigatti

Status:	New	**Start date:**	18 May 2023
Priority:	Normal	**Due date:**	
Assignee:	Anna Maria Bigatti	**% Done:**	10%
Category:	Improving	**Estimated time:**	10.00 hours
Target version:	CoCoALib-0.99880	**Spent time:**	0.00 hour

Description

When asking for MinGens with homogeneous input, we do not need to compute the whole GBasis, not even to make pairs whose degree is higher than the highest for the generators given.

This is not trivial to implement because requires a dedicated function very similar to GBasis.

I hate duplicating code: how to minimize the overlap of the two functions?

Related issues:

Related to CoCoALib - Bug #1740: MinGens gives non minimal gens *if some deg=0*	**In Progress**	**05 May 2023**
Related to CoCoALib - Feature #1743: Implement Truncated GBases for homogeneo...	**New**	**19 May 2023**

History

#1 - 19 May 2023 15:39 - Anna Maria Bigatti

*- Related to Bug #1740: MinGens gives non minimal gens *if some deg=0* added*

#2 - 19 May 2023 15:48 - Anna Maria Bigatti

- Related to Feature #1743: Implement Truncated GBases for homogeneous input added