

CoCoA-5 - Bug #1781

GenReprCompute: SERIOUS ERROR

08 Feb 2024 22:02 - John Abbott

Status:	Feedback	Start date:	08 Feb 2024
Priority:	Urgent	Due date:	
Assignee:	Anna Maria Bigatti	% Done:	90%
Category:	bug	Estimated time:	0.00 hour
Target version:	CoCoA-5.4.2	Spent time:	0.75 hour
Description			
I have just sync'ed with CVS, and CoCoA5/tests/tut-CoCoLA3 gives SERIOUS ERROR			
Oops! Too late to investigate now :-(
Related issues:			
Related to CoCoALib - Design #1647: Suppress zero from ideal generators? Det...		Closed	20 Jan 2022
Related to CoCoALib - Bug #1205: SyzOfGens: bug with zero generators		Closed	01 Aug 2018
Related to CoCoA-5 - Bug #643: GenRepr fails if there are zero generators		Closed	29 Oct 2014

History

#1 - 09 Feb 2024 07:59 - Anna Maria Bigatti

- Assignee set to Anna Maria Bigatti
- % Done changed from 0 to 20

I get the same error with

```
GenRepr(1, ideal(x, x-1));
```

investigating

#2 - 09 Feb 2024 08:11 - Anna Maria Bigatti

- Related to Design #1647: Suppress zero from ideal generators? Detect 1 and simplify generators? added

#3 - 09 Feb 2024 08:16 - Anna Maria Bigatti

- Status changed from New to Feedback
- % Done changed from 20 to 90

fixed and checked in.

GenReprCompute used SyzOfGens(ideal(concat([A], [f in GensB | not(IsZero(f))]))) which, with the new cleaning on gens of ideals, behaves wrongly.

Now we just call syz(concat([A], [f in GensB | not(IsZero(f))])).

#4 - 09 Feb 2024 08:16 - Anna Maria Bigatti

- Subject changed from SERIOUS ERROR to GenReprCompute: SERIOUS ERROR

#5 - 09 Feb 2024 08:28 - Anna Maria Bigatti

- Related to Bug #1205: SyzOfGens: bug with zero generators added

#6 - 09 Feb 2024 08:42 - Anna Maria Bigatti

- Related to Bug #643: GenRepr fails if there are zero generators added