CoCoALib - Slug #952

GCD very slow

25 Oct 2016 23:03 - John Abbott

Status:	Closed	**Start date:**	25 Oct 2016
Priority:	Normal	**Due date:**	
Assignee:	John Abbott	**% Done:**	100%
Category:	Improving	**Estimated time:**	0.33 hour
Target version:	CoCoALib-0.99650 November 2019	**Spent time:**	0.20 hour

Description

While testing IsSqFree I observed that CoCoALib is very slow at computing gcd(f,f') where f = (x^2+1)*(x^27-x) in ZZ/(3)[x].

Make it faster!

Related issues:

Related to CoCoALib - Feature #127: Convert DUPFF code to C++	**In Progress**	**05 Apr 2012**
Related to CoCoALib - Feature #951: New function: IsSqFree	**Closed**	**24 Oct 2016**
Related to CoCoA-5 - Slug #480: gcd too slow for large degree univariate poly	**New**	**18 Mar 2014**
Related to CoCoALib - Feature #257: Transcribe C4 code for GCD in QQ[x]	**New**	**09 Oct 2012**
Related to CoCoALib - Slug #129: Better GCD	**New**	**15 Apr 2012**

History

#1 - 25 Oct 2016 23:04 - John Abbott

- Related to Feature #127: Convert DUPFF code to C++ added

#2 - 25 Oct 2016 23:04 - John Abbott

- Related to Feature #951: New function: IsSqFree added

#3 - 24 Nov 2016 13:20 - John Abbott

- Related to Slug #480: gcd too slow for large degree univariate poly added

#4 - 24 Nov 2016 13:23 - John Abbott

- Related to Feature #257: Transcribe C4 code for GCD in QQ[x] added

#5 - 28 Nov 2016 21:51 - John Abbott

- Related to Slug #129: Better GCD added

#6 - 30 Oct 2019 22:39 - John Abbott

- Status changed from New to Closed

- Assignee set to John Abbott

- Target version changed from CoCoALib-1.0 to CoCoALib-0.99650 November 2019

- % Done changed from 0 to 100

- Estimated time set to 0.33 h

It is no longer very slow; no sure how fast it is (seems to be instant).
Closing.