CoCoALib - Feature #147

Feature # 143 (In Progress): Buchberger-Moeller (parent task)

Buchberger-Moeller: impl via modular reduction

01 May 2012 11:44 - John Abbott

Status:	In Progress	**Start date:**	01 May 2012
Priority:	Urgent	**Due date:**	
Assignee:	John Abbott	**% Done:**	20%
Category:	New Function	**Estimated time:**	25.00 hours
Target version:	CoCoALib-1.0	**Spent time:**	5.60 hours

Description

Impl the idea presented in AKR "Zero-dim Schemes" which uses modular reduction to get the form of the answer quickly then verifies good reduction afterwards.

Related issues:

Related to CoCoALib - Bug #349: IdealOfPoints: gens are actually a GBasis	**Closed**	**18 May 2013**
Related to CoCoALib - Feature #125: Matrix equation solving; linear system so...	**In Progress**	**05 Apr 2012**

History

#1 - 28 Jan 2013 08:10 - Anna Maria Bigatti

- Category set to New Function

#2 - 08 Feb 2013 18:02 - John Abbott

- Assignee set to John Abbott

- Priority changed from Normal to Urgent

- Target version set to CoCoALib-0.9953

#3 - 18 May 2013 11:41 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 20

JAA has a working impl based on the old C4 code. Wasted quite a lot of time tracking down a subtle bug in the old code (which was harmless in C4). This cheap hack does **not** impl the idea in the 0-dim scheme paper.

#4 - 29 May 2013 17:04 - John Abbott

- Target version changed from CoCoALib-0.9953 to CoCoALib-0.99534 Seoul14

No chance of finishing this in time for CoCoALib-0.9953/CoCoA School 2013.

#5 - 29 Oct 2013 15:17 - Anna Maria Bigatti

- Target version changed from CoCoALib-0.99534 Seoul14 to CoCoALib-0.99532

#6 - 03 Apr 2014 11:29 - John Abbott

- Target version changed from CoCoALib-0.99532 to CoCoALib-0.99533 Easter14

#7 - 04 Apr 2014 17:45 - John Abbott

- Target version changed from CoCoALib-0.99533 Easter14 to CoCoALib-0.99534 Seoul14

#8 - 10 Jul 2014 14:18 - John Abbott

- Target version changed from CoCoALib-0.99534 Seoul14 to CoCoALib-1.0