

CoCoALib - Design #1159

Add global enum "verify/DontVerify"

22 Feb 2018 16:32 - Anna Maria Bigatti

Status:	Closed	Start date:	22 Feb 2018
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	Data Structures	Estimated time:	1.10 hour
Target version:	CoCoALib-0.99600	Spent time:	1.00 hour
Description should we have a global enum for "verify/DontVerify"? this could be a pervasive feature in cocoalib.			
Related issues:			
Related to CoCoALib - Design #950: factor and SmoothFactor for integers --> F...		Closed	20 Oct 2016
Related to CoCoALib - Feature #1167: New class VerificationLevel		Closed	13 Mar 2018

History

#1 - 22 Feb 2018 16:55 - Anna Maria Bigatti

- Target version set to CoCoALib-1.0

John says it might be better to have a "reliability flag", which takes "0" as "certain".

I am thinking of the function MinPolyModular, so with 0 it would verify the answer, otherwise it would apply the desired level of checking to the rational reconstruction of the coefficients.

#2 - 26 Feb 2018 16:32 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 10

After speaking to Anna...

- a "boolean" interface is easy to understand (and simple to use)
- a more sophisticated interface would need to be well documented to be useful (e.g. NTL uses a boolean interface for probabilistic determinant)
- it would be nice to have a "universal scheme" for CoCoALib (e.g. a parameter to be used by all fns which offer an optional "fast heuristic" mode)

It may be possible to have a sophisticated interface which can also be used as if it were a boolean one: I am thinking about the method I used for specifying the GMPAllocator when creating the GlobalManager. The user can see it as just a flag, or can specify a parameter along with the flag.

#3 - 09 Mar 2018 18:16 - John Abbott

- Related to Design #950: factor and SmoothFactor for integers --> FactorINT, FactorINT_TrialDiv, FactorINT_PollardRho added

#4 - 14 Jun 2018 16:47 - John Abbott

- Related to Feature #1167: New class VerificationLevel added

#5 - 14 Jun 2018 16:48 - John Abbott

- Assignee set to John Abbott

- Target version changed from CoCoALib-1.0 to CoCoALib-0.99600

Close this issue and refer to [#1167](#)?

#6 - 25 Jun 2018 15:06 - John Abbott

- *Status changed from In Progress to Closed*
- *% Done changed from 10 to 100*
- *Estimated time set to 1.10 h*

This issue has been subsumed by [#1167](#). Closing!