CoCoALib - Support #1149

Release: CoCoALib-0.99600 (together with CoCoA-5.2.4)

17 Jan 2018 12:02 - Anna Maria Bigatti

Status:	Closed		**Start date:**	17 Jan 2018
Priority:	Normal		**Due date:**	06 Aug 2018
Assignee:	Anna Maria Bigatti		**% Done:**	100%
Category:	Various		**Estimated time:**	10.00 hours
Target version:	CoCoALib-0.99600		**Spent time:**	9.10 hours

Description

Everything related to making a CoCoALib release:

1. Redmine Roadmap: close or postpone issue
2. Redmine Release issues: check percentages, check timings
3. Finalize
4. make veryclean; make (full make, with all tests and examples and CoCoA-5..)
5. cd src/tests/; make valgrind
6. cd src/CoCoA-5; make ManExamples
7. ~/shell-scripts/cocoalib-cvs-snapshot
8. upload examples
9. upload manual
10. update webpage
11. publish manual (arXiv? ResearchGate?)
12. close release on Redmine

--> send message to facebook page

Related issues:

Related to CoCoALib - Support #1056: Release: CoCoALib-0.99560 (together with...	**Closed**	**08 Apr 2014**
Related to CoCoA-5 - Support #1148: Release CoCoA-5.2.4	**Closed**	**17 Jan 2018**
Related to CoCoALib - Support #1195: Release: CoCoALib-0.99580 (together wit...	**Rejected**	**26 Jun 2018**
Related to CoCoA-5 - Support #851: Release: CoCoA-5.2.0	**Closed**	**01 Aug 2014**
Related to CoCoALib - Support #1338: Release CoCoALib-0.99700	**Closed**	**15 Oct 2019**
Related to CoCoALib - Support #1276: Release 0.99650	**Closed**	**29 Apr 2019**

History

#1 - 17 Jan 2018 12:07 - Anna Maria Bigatti

- Related to Support #1056: Release: CoCoALib-0.99560 (together with CoCoA-5.2.2) added

#2 - 17 Jan 2018 12:08 - Anna Maria Bigatti

- Related to Support #1148: Release CoCoA-5.2.4 added

#3 - 25 Jan 2018 15:05 - John Abbott

Principal changes and additions to CoCoALib:

- ctors for **BigInt** and **BigRat** from **string** and GMP native objects now **replaced by** pseudo-ctors!
- Many files have been renamed or created with prefix SparsePolyOps- for tidying and better structure of related operations
- RandomUnimodularMat now produces results with det +1 or -1 (prev. only +1)
- improved impl of determinant for matrices over ZZ; special cases now up to dimension 5x5
- better handling of det of matrix over QQ (by mapping to matrix over ZZ)
- added new fn **EratosthenesRange**
- added new class **SmallPrime**
- added new iterators **PrimeSeq** and **PrimeSeqForCRT**
- added new fn **RandomSmallPrime**
- added new fn **SturmSeq**
- extended: **CommonDenom** for vector of polynomials over QQ
- added new fn **IsSigmaGoodPrime, DenSigma,**
- added new fn **Radical0dim, IsRadical0dim, IsPrimary**
- extended: **PrimaryDecomposition** for 0dim

- extended: **factor** for coefficients in Algebraic extension
- fixed bug: in multivariate factorization over QQ (sign of RemainingFactor could be wrong)
- added new: **BigRatInterval** with basic arithmetic
- added new fn: **RandomLinearForm**
- added new class: **VerificationLevel**
- improved (first part) communication with **MathSAT**
- added new fn **IsNonNegGrading**
- added new fns **GCDFreeBasis_BigInt** and **GCDFreeBasis_RingElem** (bad names!)
- fixed bug: SyzOfGens with 0 generators

files

- added: **SparsePolyOps-IdealZeroDim.[HC]**
- added: **SparsePolyIter.H** (from **SparsePolyRing**)
- added: **SparsePolyOps-ideal.[HC]** (from **SparsePolyRing**)
- renamed: **MinPoly.[HC]** into **SparsePolyOps-MinPoly.[HC]**
- renamed: **IdealsOfPoints.[HC]** into **SparsePolyOps-IdealOfPoints.[HC]**
- renamed: **MonomialIdeals.[HC]** into **SparsePolyOps-MonomialIdeal.[HC]**
- renamed: **IntOperations.[HC]** into **BigIntOps.[HC]**
- split: **BigRat.[HC]** into **BigRat** and **BigRatOps**
- renamed: **MatrixOperations.[HC]** into **MatrixOps.[HC]**
- renamed: **VectorOperations.[HC]** into **VectorOps.[HC]**
- split: **NumTheory** into **NumTheory** and **NumTheory-prime**

#4 - 09 Mar 2018 18:06 - John Abbott

- Due date set to 30 Jun 2018

#5 - 20 Mar 2018 12:15 - Anna Maria Bigatti

- Status changed from New to In Progress

- % Done changed from 0 to 10

#6 - 26 Jun 2018 00:46 - Anna Maria Bigatti

- Subject changed from Release: CoCoALib-0.99570 (together with CoCoA-5.4.2) to Release: CoCoALib-0.99570 (for SC2 workshop)

#7 - 26 Jun 2018 00:46 - Anna Maria Bigatti

- Related to Support #1195: Release: CoCoALib-0.99580 (together with CoCoA-5.2.4) added

#8 - 30 Jul 2018 16:16 - Anna Maria Bigatti

- Subject changed from Release: CoCoALib-0.99570 (for SC2 workshop) to Release: CoCoALib-0.99600 (for SC2 workshop)

- % Done changed from 10 to 20

#9 - 02 Aug 2018 18:39 - Anna Maria Bigatti

- % Done changed from 20 to 40

#10 - 03 Aug 2018 17:34 - John Abbott

- % Done changed from 40 to 70

#11 - 03 Aug 2018 17:34 - John Abbott

- Due date changed from 30 Jun 2018 to 06 Aug 2018

#12 - 06 Aug 2018 16:15 - Anna Maria Bigatti

- Subject changed from Release: CoCoALib-0.99600 (for SC2 workshop) to Release: CoCoALib-0.99600 (together with CoCoA-5.2.4)

#13 - 06 Aug 2018 16:16 - Anna Maria Bigatti

- Description updated

#14 - 06 Aug 2018 18:22 - Anna Maria Bigatti

valgrind tests OK!

#15 - 07 Aug 2018 14:32 - Anna Maria Bigatti

- Description updated

#16 - 07 Aug 2018 14:33 - Anna Maria Bigatti

- Description updated

#17 - 09 Aug 2018 10:36 - Anna Maria Bigatti

- Status changed from In Progress to Closed

- % Done changed from 70 to 100

- Estimated time set to 10.00 h

#18 - 16 Sep 2018 17:58 - Anna Maria Bigatti

- Related to Support #851: Release: CoCoA-5.2.0 added

#19 - 15 Oct 2019 13:51 - Anna Maria Bigatti

- Related to Support #1338: Release CoCoALib-0.99700 added

#20 - 15 Oct 2019 13:52 - Anna Maria Bigatti

- Related to Support #1276: Release 0.99650 added