

CoCoALib - Support #1481

Release CoCoALib 0.99800

28 Aug 2020 15:39 - John Abbott

Status:	Closed	Start date:	28 Aug 2020
Priority:	Normal	Due date:	
Assignee:	Anna Maria Bigatti	% Done:	100%
Category:	Various	Estimated time:	5.50 hours
Target version:	CoCoALib-0.99800	Spent time:	5.30 hours
Description			
Everything related to making a CoCoALib release:			
<ul style="list-style-type: none">• Redmine Roadmap: close or postpone issue• Redmine Release issues: check percentages, check timings• Finalize• make veryclean; make (full make, with all tests and examples and CoCoA-5..)• cd src/tests/; make valgrind• cd src/CoCoA-5; make ManExamples (readline may truncate echo lines if too long)• cvs log -d ">2020-05-01" -S -N > LOG-CoCoA.txt• ~/shell-scripts/cocoalib-cvs-snapshot• upload examples• upload manual• update webpage• publish manual (arXiv? ResearchGate?)• close release on Redmine			
--> send message to facebook page			
Related issues:			
Related to CoCoALib - Support #467: Keep CoCoALib web page up to date! All p...	Closed	12 Mar 2014	
Related to CoCoALib - Support #1452: Release CoCoALib-0.99710	Closed	30 Apr 2020	
Related to CoCoALib - Support #1687: Release CoCoALib 0.99850	In Progress	13 Jun 2022	
Related to CoCoALib - Support #1555: Software licence	Closed	21 Dec 2020	
Related to CoCoALib - Design #854: Function MakeTermOrd should be renamed Mak...	Closed	24 Mar 2016	
Related to CoCoALib - Support #1674: DocTeX.t2t missing several "index entries"	Closed	17 Mar 2022	

History

#1 - 28 Aug 2020 15:40 - John Abbott

Summary of main changes:

- **changed BigRat ctors**: it is now possible to construct BigRat directly from an integer (**but beware of incorrect BigRat(2/3) which does compile...**)
- power now checks for overflow (so very large powers cannot be computed directly)
- renamed FrobeniusNorm2 to FrobeniusNormSq
- renamed HadamardBound to HadamardBoundSq (also extended to work over any ring)
- **revised semantics for UnivariateIndetIndex**: now gives error if arg is constant poly
- extlib libnormaliz must now be at least version 3.8.10
- renamed (normaliz) Generators to TriangulationGenerators (following similar change in normaliz itself)
- added new fns **resultant** and **discriminant** for univariate polys (previously only multivariate)
- added new fns **syz(const FreeModule& F, const std::vector<RingElem>& g)**
- added new fns **FlattenByRows** and **FlattenByCols**
- added new fn **interreduced** (translated from CoCoA-5 by Julian Danner, cleaned by JAA)
- added new fn CanonicalBasis
- added new fns **CertifyNotPower** and **StarRoot**
- added new fns **factor_TrialDiv** (**changed** from SmoothFactor) and **factor_PollardRho**; improved factor for BigInt
- added new fn **IsPowerOf2** for BigRat (previously only for BigInt)
- renamed TensorMat to **KroneckerProd**
- **REJECTED** idea of new fn **PowerOfMinusOne** (returns a long)
- added new fns **IsOne** and **IsMinusOne** for MachineInt
- added new fn **RingElemVec** which reads a comma-separated list of RingElem inside square brackets
- **changed log**: now requires arg to be positive (also more accurate for some BigRat values)
- added new fn **LogAbs** equiv to log(abs(arg))

- corrected bug in exponent(BigRat), and also in FloatStr(BigRat)
- new file SparsePolyOps-vector which will collect functions on vectors of RingElem
- **extended** MachineInt to accept long long args (probably not 100% robust!)

Add other new features as they appear...

#2 - 05 Feb 2022 20:30 - John Abbott

- *Status changed from New to In Progress*
- *% Done changed from 0 to 50*

#3 - 16 Feb 2022 20:49 - John Abbott

- *Status changed from In Progress to Resolved*
- *% Done changed from 50 to 80*

#4 - 18 Feb 2022 15:33 - Anna Maria Bigatti

- *Related to Support #467: Keep CoCoALib web page up to date! All pages! added*

#5 - 23 Feb 2022 11:39 - Anna Maria Bigatti

- *Subject changed from Release CoCoALib 0.99720 to Release CoCoALib 0.99800*
- *Description updated*

#6 - 07 Mar 2022 10:05 - Anna Maria Bigatti

- *Related to Support #1452: Release CoCoALib-0.99710 added*

#7 - 07 Mar 2022 10:05 - Anna Maria Bigatti

- *Description updated*

#8 - 07 Mar 2022 17:37 - Anna Maria Bigatti

- *Description updated*

#9 - 14 Mar 2022 17:02 - Anna Maria Bigatti

- *Description updated*

#10 - 25 Mar 2022 10:39 - Anna Maria Bigatti

- *% Done changed from 80 to 90*

All is done now, except publishing the documentation (I'm still investigating some technical issues related to txt2tags, causing broken links).

#11 - 13 Jun 2022 15:10 - John Abbott

Can we close this issue now? After all, 0.99800 has been released!

#12 - 30 Nov 2022 18:31 - Anna Maria Bigatti

- *Status changed from Resolved to Closed*
- *Assignee set to Anna Maria Bigatti*
- *% Done changed from 90 to 100*

Anna Maria Bigatti wrote:

All is done now, except publishing the documentation (I'm still investigating some technical issues related to txt2tags, causing broken links).

postponed to next release ([#1662](#))

#13 - 30 Nov 2022 18:31 - Anna Maria Bigatti

- *Estimated time set to 5.50 h*

#14 - 28 Mar 2024 15:29 - Anna Maria Bigatti

- *Related to Support #1687: Release CoCoALib 0.99850 added*

#15 - 28 Mar 2024 16:00 - Anna Maria Bigatti

- *Related to Design #854: Function MakeTermOrd should be renamed MakeTermOrdMat? added*

#16 - 28 Mar 2024 16:05 - Anna Maria Bigatti

- *Related to deleted (Design #854: Function MakeTermOrd should be renamed MakeTermOrdMat?)*

#17 - 28 Mar 2024 16:10 - Anna Maria Bigatti

- *Related to Support #1555: Software licence added*

#18 - 28 Mar 2024 16:22 - Anna Maria Bigatti

- *Related to Design #854: Function MakeTermOrd should be renamed MakeTermOrdMat? added*

#19 - 28 Mar 2024 16:30 - Anna Maria Bigatti

- *Related to Support #1674: DocTeX.t2t missing several "index entries" added*