

## CoCoALib - Issues

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1	CoCoALib		Normal	MachineInteger --> MachineInt	Anna Maria Bigatti	09 Nov 2011 17:40	Renaming	100
2	CoCoALib		Normal	Makefile problem in ROOT and/or src/AlgebraicCore	John Abbott	12 Feb 2020 15:00	Makefile	100
15	CoCoALib		High	Adjoint of a non-invertible matrix	John Abbott	16 Sep 2021 13:48	New Function	100
21	CoCoALib		Normal	Rename NumTheory and NumTheoryQQ	Anna Maria Bigatti	13 Jul 2012 15:28	Renaming	100
22	CoCoALib		High	Rename PPMonoidEvZZ?	John Abbott	23 May 2013 16:58	Renaming	100
36	CoCoALib		Urgent	Saturation	Anna Maria Bigatti	05 Dec 2011 18:27	Maths Bugs	100
63	CoCoALib		Normal	Add links to examples in documentation	Anna Maria Bigatti	30 May 2012 13:40	Documentation	100
67	CoCoALib		Normal	Rename MatrixViews	John Abbott	17 Apr 2014 18:38	Renaming	100
73	CoCoALib	Feature #68: cleanup doc for matrix, MatrixViews, *Matrix*,.....	Normal	Repeated rows/cols in submat		17 Jul 2014 14:39	Safety	100
85	CoCoALib		High	QuotientRing problem	Anna Maria Bigatti	05 Jul 2012 10:11	Maths Bugs	100
89	CoCoALib		High	MachineInt or long as fn arg type for indices	John Abbott	31 May 2013 16:53	Tidying	100
111	CoCoALib		Normal	Mod fn for computing remainder	John Abbott	13 Mar 2024 21:01	Documentation	100
119	CoCoALib		Normal	CoCoA4io	John Abbott	29 May 2013 11:36	Tidying	100
135	CoCoALib		Normal	Revise interface to SmallFpImpl & friends	John Abbott	27 May 2013 14:22	Tidying	100
155	CoCoALib		Normal	gcd: multivariate over non-prime finite field	John Abbott	11 May 2012 19:01	Various	100
178	CoCoALib		Normal	IsHomog: should it throw an error when there is no grading?	Anna Maria Bigatti	29 Oct 2013 14:25	Safety	90
190	CoCoALib		High	Subtle ref count bug for poly rings (via CoeffEmbeddingHom)	John Abbott	11 Sep 2014 17:20	Safety	100
199	CoCoALib		Normal	CFApprox: division by zero	John Abbott	29 Jun 2012 17:23	Maths Bugs	100
228	CoCoALib		Normal	libcocoa sometimes built without its index	John Abbott	28 Apr 2017 16:14	Portability	100
264	CoCoALib		High	Compilation problem with "degree.H" (inline fn defns)		16 Jul 2014 14:42	Various	100
327	CoCoALib		Normal	C++ integer shift operators	John Abbott	04 Mar 2013 11:27	Portability	0
335	CoCoALib		Urgent	Equality of (sub)modules	Anna Maria Bigatti	29 Oct 2013 13:33	New Function	100
349	CoCoALib		Urgent	IdealOfPoints: gens are actually a GBasis	Anna Maria Bigatti	29 Oct 2013 13:39	New Function	100
350	CoCoALib		Immediate	problem with "matrix" argument in functions	John Abbott	11 Sep 2014 16:41	Safety	100
351	CoCoALib		Normal	Problems with DenseMatImpl::myResize	Anna Maria Bigatti	17 Apr 2014 08:24	Safety	100
355	CoCoALib		Urgent	Colon of zero ideal fails (zero-divisors)	Anna Maria Bigatti	30 Oct 2013 10:52	Maths Bugs	100
389	CoCoALib		Normal	problem loading library.H (parallel make -j4)	Anna Maria Bigatti	29 Oct 2013 13:31	Documentation	100
413	CoCoALib		High	OrdvArith: use of a single buffer is NOT THREADSAFE	John Abbott	03 Apr 2014 11:53	Safety	100
428	CoCoALib		Normal	PPMonoidOv is not threadsafe	John Abbott	17 Apr 2014 09:49	Safety	100

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510	CoCoALib		Normal	SyzOfGens (CoCoALib): fix shifts	Anna Maria Bigatti	17 Apr 2014 16:36	Maths Bugs	100
517	CoCoALib		High	MaxSquarableInteger gives wrong ans for unsigned long	John Abbott	17 Apr 2014 09:26	Portability	100
536	CoCoALib		Normal	Make RingBase::myCharacteristic a fn rather than a proc	John Abbott	09 Mar 2023 21:58	Tidying	100
538	CoCoALib		Normal	Compilation problem in TmpMorsePaths.C	John Abbott	20 May 2014 09:52	Portability	100
577	CoCoALib		High	Hilbert crashes with > 100 indeterminates	Anna Maria Bigatti	31 Jul 2014 16:57	Maths Bugs	100
593	CoCoALib		High	Temporary directories used during configuration	John Abbott	08 Nov 2017 18:16	Tidying	100
631	CoCoALib		Normal	Ambiguous: rank for matrix (in ex-matrix1.C)	John Abbott	30 Jun 2015 15:07	Portability	100
648	CoCoALib		High	QBGenerator crashes	John Abbott	17 Nov 2014 11:38	Maths Bugs	100
666	CoCoALib		Urgent	RatReconstructByLattice fails in some simple cases	John Abbott	25 Jun 2015 15:16	Maths Bugs	100
693	CoCoALib		Normal	Makefile_dependencies in src/tests/	John Abbott	15 Dec 2017 17:21	Tidying	100
705	CoCoALib		Normal	DetDirect calls myAddMul with 0 argument -- funny compilation problem??	Anna Maria Bigatti	26 Jun 2015 16:15	Improving	100
736	CoCoALib		Normal	QuotientRing: is it correct to prohibit quotient by ideal(1)?	Anna Maria Bigatti	27 Jan 2020 17:43	Improving	100
756	CoCoALib		Normal	frobby (v0.9.0) does not compile with g++-4.8	John Abbott	06 Nov 2017 16:48	Portability	100
776	CoCoALib		Normal	FloatStr prints a NUL character	John Abbott	01 Feb 2016 14:23	Maths Bugs	100
783	CoCoALib		Normal	abs for MachineInt	John Abbott	23 Mar 2016 15:27	Various	100
790	CoCoALib		Normal	RingDistrMPolyInIFPPIImpl::mySummandPool frees ZERO PTR many times	John Abbott	28 Apr 2017 09:32	Tidying	100
793	CoCoALib		Normal	compilation on fedora 23: some worrying "error messages"	John Abbott	15 Dec 2017 16:59	Makefile	100
804	CoCoALib		Normal	ZeroMat and IdentityMat should produce a matrix not a ConstMatrixView	John Abbott	23 Mar 2016 15:20	Safety	100
807	CoCoALib		High	DiagMat: mySetEntry checks the entry is writable only if debugging active	John Abbott	28 Apr 2017 09:33	Safety	100
814	CoCoALib		Normal	PPOrdering: matrix ordering, what rings are allowed.	John Abbott	28 Apr 2017 09:33	Safety	100
820	CoCoALib		High	NewMatMinimize, NewMatCompleteOrd - a godforsaken mess!	John Abbott	24 Mar 2016 18:09	Tidying	100
821	CoCoALib		Normal	IsTermOrdering	John Abbott	24 Mar 2016 12:02	Tidying	100
830	CoCoALib		Normal	Use MachineInt instead of long for params to ZeroMat, IdentityMat, MatByCols, MatByRows	John Abbott	21 Mar 2016 14:36	Tidying	100
831	CoCoALib		Normal	primary.cocoa5	Anna Maria Bigatti	22 Mar 2016 17:42	Tidying	100
834	CoCoALib		Normal	Fix test failures (after revising MatrixForOrdering)	Anna Maria Bigatti	24 Mar 2016 11:42	Tidying	100
853	CoCoALib		Normal	NearestInt can needlessly throw InsufficientPrecision	John Abbott	05 Oct 2016 16:33	Maths Bugs	100
858	CoCoALib		Normal	floor for TwinFloat can produce ERR::SERIOUS	John Abbott	25 Jun 2016 12:08	Maths Bugs	100
860	CoCoALib		Normal	Check impl of RingTwinFloatImpl::myIsRational	John Abbott	28 Apr 2017 09:33	Safety	100
864	CoCoALib		Normal	Assignment of rings (esp. derived rings such as PolyRing)	John Abbott	28 Apr 2017 09:34	Tidying	100
867	CoCoALib		Normal	Compilation Error: C++11 and old GMP-Version	John Abbott	28 Apr 2017 09:35	Various	100

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895	CoCoALib		Normal	NumDigits: sometimes gives wrong answer	John Abbott	28 Apr 2017 09:30	Improving	100
905	CoCoALib		Normal	txt2tags: double quotes wrong in LaTeX	Anna Maria Bigatti	10 Oct 2019 19:06	Documentation	100
935	CoCoALib		High	ElimMat, ElimHomogMat: complain about zero or negative weights	Anna Maria Bigatti	13 Feb 2020 10:30	Safety	100
936	CoCoALib		Normal	ReadExpr: cannot handle exponent which is not integer literal	John Abbott	18 Nov 2016 22:22	Improving	100
938	CoCoALib		Urgent	ReadExpr: misreads 2/3^4	John Abbott	18 Nov 2016 22:23	Maths Bugs	100
956	CoCoALib		Normal	determinant: fails for 0x0 matrix (SEGV)	John Abbott	28 Apr 2017 09:29	Maths Bugs	100
971	CoCoALib		Normal	CheckForInterrupt does not work in the expected way	John Abbott	28 Apr 2017 09:30	Improving	100
975	CoCoALib		High	configure: possibly ignore GMP compilation flags	John Abbott	15 Dec 2017 15:08	Portability	100
1004	CoCoALib		High	In scripts: use portable test for absolute paths	John Abbott	28 Apr 2017 09:31	Portability	100
1015	CoCoALib		Normal	Bruns SEGV: SparsePolyIter/DMPI problem	John Abbott	28 Apr 2017 09:30	Data Structures	100
1048	CoCoALib		Normal	Several tests fail when threadsafe-hack is active	John Abbott	22 Apr 2017 22:43	Safety	100
1064	CoCoALib		Normal	Bug in MinPolyModular (ugly prime)	Anna Maria Bigatti	10 Nov 2017 12:16	Improving	100
1078	CoCoALib		Normal	makefile: ungraceful when interrupted	John Abbott	08 Nov 2017 18:08	Safety	100
1081	CoCoALib		Normal	ideal() * RingElem gives error	Anna Maria Bigatti	08 Nov 2017 17:03	Maths Bugs	100
1082	CoCoALib		High	factor in ZZ[x] gives errors	John Abbott	08 Nov 2017 14:12	Maths Bugs	100
1083	CoCoALib		Normal	MinPolyQuot: check input (was: MinPolyQuot gives "bad characteristic" error)	Anna Maria Bigatti	15 Dec 2017 16:39	Safety	100
1088	CoCoALib		Normal	MinPolyQuot: runs out of primes	Anna Maria Bigatti	08 Nov 2017 14:39	Improving	100
1101	CoCoALib		High	Bug in MinPolyModular (insufficient rational reconstruction)	Anna Maria Bigatti	15 Dec 2017 16:42	Maths Bugs	100
1113	CoCoALib		Normal	gcd crashes (Floating point exception)	John Abbott	30 Oct 2019 22:16	Safety	100
1121	CoCoALib		Normal	PrevPrime and NextPrime anomalies	John Abbott	03 Aug 2018 15:48	Maths Bugs	100
1135	CoCoALib		Normal	Compiler with --debug configuration option gives errors	John Abbott	15 Dec 2017 15:16	Tidying	100
1143	CoCoALib		Urgent	Polynomial multiplication wrong for non integral rings	John Abbott	20 Dec 2017 15:48	Maths Bugs	100
1185	CoCoALib		High	factor: multivariate, wrong RemainingFactor (sign wrong)	John Abbott	31 Jul 2018 13:15	Maths Bugs	100
1199	CoCoALib		Normal	GCD bug with high degree arg	Anna Maria Bigatti	03 Aug 2018 15:47	Maths Bugs	100
1205	CoCoALib		Urgent	SyzOfGens: bug with zero generators	Anna Maria Bigatti	03 Aug 2018 18:09	Improving	100
1211	CoCoALib		High	HilbertSeries should check grading	Anna Maria Bigatti	03 Oct 2019 10:37	Maths Bugs	100
1248	CoCoALib		High	MinPolyQuot: guaranteed and ideal without GBasis	Anna Maria Bigatti	31 Oct 2019 15:55	Maths Bugs	100
1250	CoCoALib		Urgent	SEGV: CoCoALib with Normaliz in multithreading	Anna Maria Bigatti	10 Oct 2019 19:12	Improving	100
1256	CoCoALib		High	RingID: different values in test-output on different platforms	John Abbott	27 Mar 2019 17:21	Portability	100
1260	CoCoALib		High	Fix file permissions after using CVS	John Abbott	12 Feb 2020 16:16	Safety	100
1264	CoCoALib		Urgent	Remove unnecessary files before making CoCoALib release TGZ files	John Abbott	12 Mar 2020 22:28	Tidying	100
1300	CoCoALib		Normal	CoprimeFactorBasis: mishandles negative args	John Abbott	01 Oct 2019 13:34	Maths Bugs	100

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1308	CoCoALib		Normal	test-GFan1 fails	John Abbott	11 Feb 2020 18:28	Portability	100
1310	CoCoALib		Urgent	RealRoots: gives odd number of roots for deg 6 irred poly	John Abbott	14 Oct 2019 15:01	Maths Bugs	100
1317	CoCoALib		Normal	txt2tags: LaTeX/PDF section numbers over 99 in TOC	Anna Maria Bigatti	10 Oct 2019 18:41	Documentation	100
1319	CoCoALib		Normal	Problem rebuilding dependencies when file PREPROCESSOR_DEFNS.H does not exist	John Abbott	11 Feb 2020 12:22	Improving	100
1331	CoCoALib		Normal	adj: for matrices 7x7 and bigger	John Abbott	28 Oct 2020 23:17	Maths Bugs	100
1345	CoCoALib		High	Problem with linking the library	Anna Maria Bigatti	19 Oct 2019 20:28	Safety	100
1361	CoCoALib		Low	Compilation fails when compiling with libgsl	Florian Walsh	03 Feb 2024 19:56	Portability	100
1362	CoCoALib		Normal	GBasis verbose mode: some output is on cerr/clog	John Abbott	12 Feb 2020 18:14	Tidying	100
1376	CoCoALib		Normal	GBasisTimeout: not working as expected	John Abbott	16 Sep 2021 13:51	Improving	100
1379	CoCoALib		High	Fails to recognize zero-dim ideal	Anna Maria Bigatti	10 Jan 2020 12:17	Maths Bugs	100
1380	CoCoALib		Normal	Make IsZeroDim more robust	John Abbott	10 Jan 2020 12:29	Improving	100
1402	CoCoALib		Normal	gfan: installation problem: configure reports cdd.h present but cannot be compiled	John Abbott	11 Feb 2020 18:33	Portability	100
1411	CoCoALib		Normal	IsPrimary sometimes wrong	John Abbott	03 Feb 2020 15:42	Maths Bugs	100
1416	CoCoALib		Normal	IdealOfProjectivePoints and MinGens	Anna Maria Bigatti	04 Mar 2020 14:19	Maths Bugs	100
1423	CoCoALib		Normal	Radical 0-dim NYI? missing case for GBasisByHomog	Anna Maria Bigatti	25 Sep 2020 16:58	Improving	100
1426	CoCoALib		High	Main Makefile: does not rebuild dependencies	John Abbott	04 Mar 2020 14:20	Makefile	100
1449	CoCoALib		Urgent	Bivariate factor bug: sometimes a factor is reducible	John Abbott	20 May 2020 13:26	Maths Bugs	100
1458	CoCoALib		Normal	Redesign interrupt mechanism?	John Abbott	07 Mar 2022 10:07	Improving	100
1473	CoCoALib		Normal	isystem not working as expected	John Abbott	14 Sep 2021 11:56	Portability	100
1484	CoCoALib		Normal	ker bug (quotientinghom for R/ideal())	Anna Maria Bigatti	16 Sep 2021 13:33	Maths Bugs	100
1522	CoCoALib		High	SEGV: avoid long linked lists of loaves in MemPools	John Abbott	09 Mar 2023 21:50	Safety	100
1565	CoCoALib		Normal	IsInRadical: gives "weird" error	John Abbott	16 Sep 2021 12:49	Maths Bugs	100
1570	CoCoALib		Normal	FloatStr sometimes produces NUL chars	John Abbott	16 Sep 2021 12:32	Maths Bugs	100
1579	CoCoALib		Low	Readexpr/RingElem: unhelpful error message when input is wrong	John Abbott	23 Feb 2024 12:39	Improving	100
1585	CoCoALib		High	CRASH/ABORT: GMP overflow	John Abbott	22 Sep 2021 17:45	Safety	100
1590	CoCoALib		Normal	CRASH: LinKerZZ	John Abbott	16 Sep 2021 12:27	Safety	100
1601	CoCoALib		Normal	Compilation ambiguity	John Abbott	04 Feb 2022 21:44	Portability	100
1605	CoCoALib		Normal	binomial: domain of defn?	John Abbott	14 Sep 2021 12:01	Tidying	100
1641	CoCoALib		High	gcd does not recognize univariate input	John Abbott	21 Mar 2024 20:18	Improving	100
1656	CoCoALib		Normal	SEGV in resultant	John Abbott	04 Feb 2022 21:33	Maths Bugs	100
1661	CoCoALib		Normal	Microsoft: cannot compile with signal handling	Nico Mexis	11 Apr 2024 10:10	Portability	100
1690	CoCoALib		High	resultant gives wrong answer if an arg has deg 0	John Abbott	18 Jan 2023 18:33	Maths Bugs	100

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1710	CoCoALib		Urgent	IsSqFree, IsIrred bugs in ZZ[x] and QQ[x]	John Abbott	07 Mar 2023 20:55	Maths Bugs	100
1712	CoCoALib		Normal	Windows: New configuration script	John Abbott	13 Mar 2023 21:50	Portability	100
1719	CoCoALib		Normal	FactorINT has got worse	John Abbott	22 Apr 2024 20:00	Improving	100
1725	CoCoALib		High	resultant: gives wrong answer when should be 0	John Abbott	09 Mar 2023 20:49	Maths Bugs	100
1726	CoCoALib		Normal	Dangling references to temporaries	John Abbott	25 Mar 2024 18:05	Portability	100
1729	CoCoALib		Urgent	Bug HilbertPoly of zero-dimensional ideals	Anna Maria Bigatti	12 Apr 2023 14:45	Maths Bugs	100
1749	CoCoALib		High	Configuration hiccups on Mac M1	John Abbott	21 Mar 2024 20:31	Portability	100
1758	CoCoALib		Normal	Graeffe "sign bug"	John Abbott	22 Dec 2023 20:59	Maths Bugs	100
1773	CoCoALib		Normal	CyclotomicFactorIndexes: gave wrong answer	John Abbott	22 Dec 2023 21:30	Maths Bugs	100
1779	CoCoALib		Normal	Radical error with lex (again)	Anna Maria Bigatti	23 Feb 2024 12:28	Various	100
1789	CoCoALib		Urgent	GradingMat with negative weights should complain (or deal with them properly!!)	Anna Maria Bigatti	18 Mar 2024 16:15	Improving	100
1790	CoCoALib		High	saturate with zero ideals	John Abbott	21 Mar 2024 17:56	Maths Bugs	100
1791	CoCoALib		Urgent	Fix Google-search link in the html documentation	Anna Maria Bigatti	14 Mar 2024 09:24	Documentation	100