

## CoCoALib - Issues

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1813	CoCoALib		Normal	Some tests have become slower		07 Apr 2024 21:53	Safety	10
1796	CoCoALib		Normal	myFinalizeGBasis ("Final clean up") should be more flexible	Anna Maria Bigatti	22 Mar 2024 16:19	Improving	30
1769	CoCoALib		Normal	FixedDivisor is sometimes surprisingly slow	John Abbott	22 Dec 2023 20:57	Improving	100
1757	CoCoALib		Normal	gcd(f,f) is slow		16 Feb 2024 09:57	Improving	0
1756	CoCoALib		Normal	deg(f) is slow if f is long	John Abbott	21 Mar 2024 20:40	Improving	50
1754	CoCoALib		Normal	IsSqFree poorly implemented	John Abbott	23 Feb 2024 11:39	Improving	100
1739	CoCoALib		Normal	IsHomog for ideals	Anna Maria Bigatti	01 Mar 2024 14:57	Improving	100
1737	CoCoALib		Normal	Homogenization of an ideal with ZZ^1-grading	Anna Maria Bigatti	01 Feb 2024 19:59	Improving	20
1680	CoCoALib		Normal	FloorLog2 or SizeInBase?	John Abbott	08 Aug 2022 20:16	Tidying	100
1646	CoCoALib		Normal	radical: could be more clever	John Abbott	24 Jan 2022 09:07	Maths Bugs	100
1643	CoCoALib		Normal	rrref slower than expected (maybe) [[reduced row echelon form]]		01 Mar 2024 09:54	Improving	0
1588	CoCoALib		Low	ElimMat is slow		22 Mar 2024 09:29	Improving	0
1569	CoCoALib		Normal	IsInRadical too slow (test-RadicalMembership)		01 Mar 2024 18:40	Improving	100
1557	CoCoALib		Normal	Reading list of rationals is too slow	John Abbott	10 Mar 2023 18:23	Improving	100
1521	CoCoALib		Normal	Unexpectedly slow example with larger types for SmallExponent_t		08 Mar 2023 19:54	Various	0
1518	CoCoALib		Normal	SLUG: Printing PPs with many indets		15 Feb 2024 22:45	Improving	20
1517	CoCoALib		Low	RandomLinearForm	John Abbott	04 Feb 2022 21:31	Improving	100
1394	CoCoALib		Low	Oddly slow GBasis computation (slow final cleanup)	Anna Maria Bigatti	16 Apr 2024 22:46	Improving	70
1375	CoCoALib		Normal	Radical 0-dim: varied timings	John Abbott	04 Feb 2022 21:20	Improving	100
1369	CoCoALib		Low	RandomUnimodularMat is slow with many iters		09 Jan 2020 12:19	Improving	10
1359	CoCoALib		Normal	gcd: low degree but big coeffs can be slow		30 Oct 2019 22:23	Improving	0
1337	CoCoALib		Normal	PrimaryDecomposition: a interesting/pathological example	Anna Maria Bigatti	08 Mar 2023 21:13	Improving	10
1324	CoCoALib		Normal	Improve RootBound		30 Oct 2019 21:44	Improving	10
1302	CoCoALib		Normal	Factorization mod p	John Abbott	10 Oct 2019 19:12	Improving	100
1238	CoCoALib		Urgent	ReadExpr is too slow on long lists of monomial with many indets: ----> use RingElems instead	Anna Maria Bigatti	12 Feb 2020 09:44	Improving	100
1187	CoCoALib		Normal	Matrix rank is slow (over QQ)		26 Jun 2018 11:29	Improving	0
1181	CoCoALib		Normal	CpuTime is costly!	John Abbott	31 Jul 2018 14:25	Improving	100
1170	CoCoALib		Normal	SmoothFactor: slow when a factor is found	John Abbott	29 Oct 2020 21:51	Tidying	100
1165	CoCoALib		Normal	MinPoly over QQ: verification may be very slow	Anna Maria Bigatti	03 Aug 2018 17:37	Improving	100
1136	CoCoALib		Low	IsInRadical: sometimes a bit slow	John Abbott	09 Dec 2019 13:34	Improving	100

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1118	CoCoALib		Low	SLUG: factorization of $x^{9999}$		31 Jan 2024 22:20	Improving	10
1110	CoCoALib		Normal	Determinant of matrix over QQ (whose entries are actually integers)	John Abbott	03 Aug 2018 15:56	Improving	100
1105	CoCoALib		Normal	Primary Decompositon (zero-dim) slow cases	Anna Maria Bigatti	10 Oct 2019 19:20	Improving	100
1070	CoCoALib		Normal	Slug: MakeTermOrd (rk calls in RemoveRedundantRows)	Anna Maria Bigatti	17 May 2017 13:47	Improving	10
1057	CoCoALib		High	Slug: Polynomial ring constructor slow with (big) matrix ordering	Anna Maria Bigatti	22 Mar 2024 09:31	Improving	50
1049	CoCoALib		Low	GroebnerFan: slow examples		11 Mar 2024 11:12	Various	10
1042	CoCoALib		Low	LF curiously slow (breaking a poly into homog pieces)	John Abbott	06 Nov 2017 15:17	Improving	100
1009	CoCoALib		Normal	coefficients for MinPoly e Frobenius	Anna Maria Bigatti	03 Aug 2018 17:16	Improving	100
969	CoCoALib		Normal	Output to bad stream (operator<< and myOutput): just return immediately	John Abbott	11 Feb 2020 18:07	Improving	100
968	CoCoALib		Normal	Slow NF example		10 Nov 2016 21:33	Improving	10
967	CoCoALib		Normal	Improve saturate	Anna Maria Bigatti	22 Mar 2024 10:18	Improving	70
952	CoCoALib		Normal	GCD very slow	John Abbott	30 Oct 2019 22:39	Improving	100
897	CoCoALib		Normal	SimplestBigRatBetween: why is it so slow?	John Abbott	16 Sep 2021 13:47	Improving	100
884	CoCoALib		Normal	DistrMPolyInIPP::myPushFront and DistrMPolyInIPP::myPushBack inefficient if arg is a PP		24 May 2016 15:25	Improving	0
882	CoCoALib		Normal	Impl faster multiplication for DUP (dense univariate polys)		09 May 2016 22:10	Improving	0
881	CoCoALib		Normal	ReadExpr is too slow on large polys	John Abbott	08 Nov 2017 15:59	Improving	100
874	CoCoALib		Normal	factor: too slow on largish multivariate poly	John Abbott	26 Feb 2019 16:29	Improving	20
866	CoCoALib		Normal	implicit, ImplicitHypersurface: improve output verification		22 Mar 2024 09:43	Tidying	20
842	CoCoALib		Normal	PPMonoidSparse: comparisons are VERY SLOW		15 Feb 2016 13:57	Improving	0
837	CoCoALib		Normal	factor is very slow on some simple input polynomials		06 Jan 2016 14:40	Improving	0
799	CoCoALib		Low	vector of "indets" in each PPMonoid?	John Abbott	11 Nov 2015 13:47	Improving	20
792	CoCoALib		Normal	configure: search for libgmp too slow	John Abbott	09 Jan 2020 22:02	Portability	100
777	CoCoALib		Normal	SLUG: elimination	Anna Maria Bigatti	22 Mar 2024 18:12	Improving	10
773	CoCoALib		Normal	DMPZmerge: make non-recursive	John Abbott	23 Mar 2016 15:00	Improving	100
742	CoCoALib		Normal	View PP exponent vector (and order vector?) as an array of long?		01 Sep 2015 12:08	Improving	10
725	CoCoALib		Normal	Example database: Slow ideal equality test		10 Jun 2015 14:24	Various	0
722	CoCoALib		Low	valuation slow for large inputs	John Abbott	07 Oct 2020 22:11	Improving	100
701	CoCoALib		Low	Makefile; limit dependencies on external libs		14 Oct 2022 16:51	Makefile	100
691	CoCoALib		Normal	Matrix determinant over ZZ	John Abbott	10 Oct 2019 18:46	Improving	100
688	CoCoALib		Normal	PolyAlgebraHom (PolyRingHom) evaluate multivariate polynomials		22 Apr 2015 14:38	Improving	10
679	CoCoALib		High	power for PPs is too slow	John Abbott	29 Jun 2015 13:03	Safety	100
675	CoCoALib		Normal	Matrix determinant over multivariate poly ring		22 May 2015 13:45	Tidying	10

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
537	CoCoALib		Low	FloatStr uses too much memory		16 Apr 2014 12:01	Tidying	0
479	CoCoALib		Low	make check in examples/ directory is far too slow	John Abbott	17 Apr 2014 09:51	Various	100
417	CoCoALib		Normal	ex-Normaliz2-overflow.in too long & too much memory	Christof Soeger	03 Apr 2014 17:30	Various	100
329	CoCoALib		Normal	Why is DMPI slower than DMPClean?		13 May 2015 09:54	Improving	0
129	CoCoALib		Normal	Better GCD		09 Jul 2014 18:08	New Function	0
120	CoCoALib		Normal	LT over QQ: surprisingly slow		10 Jul 2014 16:26	Various	0
81	CoCoALib		Normal	DMPI vs DMPIL is slower than expected	John Abbott	01 Feb 2012 11:35	Various	100