

## CoCoALib - Issues

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1804	CoCoALib		Normal	Use long long (at least sometimes)?	John Abbott	26 Apr 2024 21:09	Portability	80
1787	CoCoALib		Normal	Iterator design: compatible with C++STL? Advancing beyond end?	John Abbott	23 Apr 2024 22:26	Tidying	30
1750	CoCoALib		Normal	IdealOfPoints: allow duplicate points?	John Abbott	08 Mar 2024 18:23	Improving	20
1703	CoCoALib		Normal	Threadsafty, multithreading: optional fn arg (or separate fn)	John Abbott	07 Mar 2024 20:04	Safety	80
1642	CoCoALib		Normal	interreduce: make monic if over finite field?	John Abbott	16 Feb 2024 20:44	Improving	20
1576	CoCoALib		Normal	cmp for machine integers	John Abbott	21 Jan 2024 20:23	Improving	20
1572	CoCoALib		Normal	Use noexcept	John Abbott	23 Apr 2024 21:57	Improving	70
1125	CoCoALib		Normal	Separate install script for CoCoALib?	John Abbott	23 Jan 2024 21:54	Tidying	0
933	CoCoALib		Normal	Separate configure scripts for CoCoALib and CoCoA-5	John Abbott	23 Jan 2024 21:52	Portability	10
894	CoCoALib		Normal	strict enum types: C++11 extension	John Abbott	25 Apr 2024 21:49	Safety	30
846	CoCoALib		Normal	IsIrred: correct design?	John Abbott	26 Feb 2019 16:32	Improving	20
752	CoCoALib		Normal	Investigate using Boost.build instead of make	John Abbott	28 Apr 2017 11:23	Portability	0
620	CoCoALib		Normal	Redesign CRTMill	John Abbott	21 Mar 2016 14:30	New Function	20
396	CoCoALib		Normal	PPMonoidElemAlias: redesign PPMonoidElem the same way as RingElem?	John Abbott	13 May 2015 09:57	Data Structures	0
1744	CoCoALib		Normal	Implement GBMill (aka Groebner Framework)	Anna Maria Bigatti	25 May 2023 14:30	Data Structures	10
1720	CoCoALib		Normal	DivAlg in CoCoALib	Anna Maria Bigatti	25 Mar 2024 17:55	Tidying	20
1704	CoCoALib		Normal	Symlink directory for external files needed by CoCoA-5	Anna Maria Bigatti	18 Mar 2024 09:29	Tidying	0
1422	CoCoALib		Normal	Remove flag lhaveGBasisValue?	Anna Maria Bigatti	16 Feb 2024 17:56	Data Structures	10
1179	CoCoALib		Normal	Clean up SparsePolyOps-MonomialIdeals	Anna Maria Bigatti	22 Mar 2024 09:33	Tidying	20
924	CoCoALib		Normal	FlagManager for bool/bool3 flags	Anna Maria Bigatti	16 Feb 2024 17:57	Data Structures	50
849	CoCoALib		Normal	Cleanup MinPoly code	Anna Maria Bigatti	08 Mar 2024 18:15	Tidying	10
809	CoCoALib		Normal	FastCmp for degree -- useful?	Anna Maria Bigatti	27 Nov 2015 16:06	Tidying	0
707	CoCoALib		Normal	MatrixOrderingMod32749Impl: test and write documentation!	Anna Maria Bigatti	25 Apr 2024 21:46	Safety	50
703	CoCoALib		Normal	Add more operations between modules (CoCoALib)	Anna Maria Bigatti	27 Oct 2017 11:53	New Function	10

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686	CoCoALib		Normal	myAddMul in poly rings	Anna Maria Bigatti	20 Apr 2015 13:22	Tidying	20
316	CoCoALib		Normal	submodule constructor different from ideal	Anna Maria Bigatti	10 Jul 2014 16:21	Tidying	0
1807	CoCoALib		Normal	Error codes: "Not..." for "blah must be ..." -- change prefix		26 Mar 2024 14:22	Renaming	0
1802	CoCoALib		Normal	Tidying ideal generators (for non-polynomial ideals)		25 Mar 2024 19:05	Improving	0
1801	CoCoALib		Normal	BuildInfo		13 Apr 2024 22:18	Tidying	10
1800	CoCoALib		Normal	Conversion from SmallPrime to UNSIGNED long?		15 Apr 2024 10:09	Tidying	10
1799	CoCoALib		Normal	Clean out OLD CODE?		24 Mar 2024 10:52	Tidying	0
1798	CoCoALib		Normal	Computing in sub polyring		22 Mar 2024 09:30	Improving	0
1792	CoCoALib		Normal	CpuTimeOut: arg of type ErrorContext?		18 Mar 2024 20:50	Tidying	0
1783	CoCoALib		Normal	Code & doc structure: one-big-file or many-small-files?		24 Feb 2024 18:34	Tidying	10
1777	CoCoALib		Normal	VerificationLevel: just 3? Low, high, guaranteed?		16 Feb 2024 10:00	Various	0
1767	CoCoALib		Normal	Finalize design for ideals in CoCoALib		08 Mar 2024 17:26	Data Structures	10
1738	CoCoALib		Normal	Suggestion about Graded polynomial rings		05 May 2023 08:47	Data Structures	10
1736	CoCoALib		Normal	Clean TmpGOperations, and remove Tmp prefix		28 Apr 2023 16:01	Tidying	0
1727	CoCoALib		Normal	Cruft in ExtLibs-Normaliz.C		13 Mar 2023 19:01	Tidying	0
1699	CoCoALib		Normal	Shell scripts: Shebang line, etc		16 Feb 2024 10:01	Portability	10
1691	CoCoALib		Normal	Random and threadsafe?		15 Feb 2024 22:38	Safety	0
1685	CoCoALib		Normal	RingBase::mySwap needed?		07 Mar 2024 20:49	Improving	10
1682	CoCoALib		Normal	swap for new classes		16 Feb 2024 09:35	Improving	10
1678	CoCoALib		Normal	Unsigned long for indexes (& sizes?)		07 Mar 2024 20:25	Safety	10
1677	CoCoALib		Normal	release-source script: use shell globbing?		16 Feb 2024 10:01	Tidying	10
1669	CoCoALib		Normal	Review File subtree hierarchy		08 Mar 2023 19:56	Tidying	0
1632	CoCoALib		Normal	C++17: notes about updating		12 Nov 2021 18:11	Portability	0
1630	CoCoALib		Normal	Signal handler not portable?		15 Feb 2024 22:42	Portability	0
1628	CoCoALib		Normal	Unused variables, params, data members		11 Mar 2023 12:29	Tidying	10
1607	CoCoALib		Normal	Coding guidelines		16 Feb 2024 10:02	Documentation	0
1562	CoCoALib		Normal	matrix.H and MatrixView.H		08 Mar 2023 19:56	Tidying	0
1491	CoCoALib		Normal	Unified Gaussian reduction impl		08 Mar 2023 19:55	Tidying	0
1465	CoCoALib		Normal	mul(MAT,MAT,MAT)		16 Feb 2024 10:04	Tidying	10
1464	CoCoALib		Normal	What is the difference between InterruptReceived and InterruptedBySignal		01 Mar 2024 09:54	Tidying	0
1446	CoCoALib		Normal	Start using C++14 "move" capability		08 Mar 2024 18:00	Improving	10

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1428	CoCoALib		Normal	DenseMatrix: use template impl for ctors from vec-vec?		07 Mar 2024 20:49	Tidying	0
1414	CoCoALib		High	Make class RingElemVector?		25 Apr 2024 21:53	Data Structures	20
1378	CoCoALib		Normal	Create two separate radical fns (for 0-dim ideals)		03 Jul 2023 17:49	Improving	0
1370	CoCoALib		Low	RingID counter increased inside some functions		31 Jan 2024 22:19	Improving	0
1355	CoCoALib		Normal	TmpLDP uses srand and time		01 Mar 2024 09:50	Tidying	0
1346	CoCoALib		Normal	C++14: use the new for loop syntax where appropriate (like cocoa's foreach)		22 Apr 2024 21:08	Improving	80
1266	CoCoALib		Normal	Make a poly ring QQ[x,y,z] also contain a ZZ[x,y,z]		28 Mar 2019 16:42	Improving	0
1255	CoCoALib		Normal	Ideals with trivial GBasis		08 Mar 2023 19:49	Improving	0
1242	CoCoALib		Normal	C++14: Use type auto where appropriate		22 Apr 2024 21:08	Tidying	40
1225	CoCoALib		High	Move to C++14 (skipping C++11)		08 Mar 2024 17:46	Portability	30
1213	CoCoALib		Normal	Create PolyOps-RingElem?		16 Feb 2024 09:48	Tidying	0
1168	CoCoALib		Normal	ideal: does const ourGetPtr really need to be private?		08 Mar 2024 17:26	Data Structures	40
1156	CoCoALib		Normal	Printing for RingElem		08 Jan 2020 23:02	Improving	0
1147	CoCoALib		Normal	mySquare and myPowerSmallExp		30 Apr 2019 17:18	Tidying	0
1098	CoCoALib		Normal	Ctors for exceptions/errors		06 Sep 2017 15:27	Tidying	0
1059	CoCoALib		Normal	Printing ring for ideals (or just for ideals 0 and 1)		05 May 2017 16:58	Improving	10
970	CoCoALib		Normal	Weights in ElimMat?		11 Nov 2016 15:49	Improving	10
934	CoCoALib		Normal	MachineInt: change semantics?		22 Apr 2024 21:32	Safety	30
925	CoCoALib		Normal	MachineInt or long for args which are indices (yet again)		16 Apr 2024 22:29	Safety	50
921	CoCoALib		Normal	Design GBMill		22 May 2017 14:11		0
906	CoCoALib		Normal	External libraries: keep copy of compatible versions?		13 Jul 2016 11:19	Portability	0
871	CoCoALib		Normal	Redesign ideals		31 Oct 2023 11:24	Data Structures	0
841	CoCoALib		Normal	NewPolyRing: tidy up the many different versions		01 Sep 2017 11:30	Tidying	10
832	CoCoALib		Low	Generalize grading matrix		14 Mar 2024 11:29	Data Structures	20
787	CoCoALib		Normal	Remove refcounts from RingElem?		19 Oct 2015 17:08	Safety	0
785	CoCoALib		Normal	finite fields: global register of fields already created?		15 Oct 2015 17:27	Improving	0
778	CoCoALib		Normal	CRTMill::myAddInfo accept modulus 1 or not?		21 Mar 2016 15:16	Tidying	0
769	CoCoALib		Normal	CoCoALib cone		27 Jan 2020 15:32	Data Structures	10
763	CoCoALib		Normal	GlobalManager: initialization compatible with initialization of external libs		21 Mar 2016 16:55	Portability	10
710	CoCoALib		Normal	Update normaliz interface?		16 Feb 2024 18:25	Improving	10
647	CoCoALib		Normal	Unique copies of free modules?		10 Nov 2014 16:55	Safety	0
601	CoCoALib		Normal	LongRange: in which file should it be declared/defined?		08 Mar 2023 20:45	Tidying	10

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582	CoCoALib		Normal	Error codes: use same code for "not poly ring" and "not elem poly ring"		26 Mar 2024 14:36	Tidying	30
572	CoCoALib		Normal	Split SparsePolyRing.H into two files? Problem with circular includes.		17 May 2018 16:36	Tidying	0
551	CoCoALib		Normal	Reconsider overloaded virtual mem fns		09 Jul 2014 18:00	Safety	0
550	CoCoALib		Normal	add myResolution member field to ideal and (sub)module		13 May 2015 09:57	Data Structures	0
513	CoCoALib		High	Quick/correct flag for bool3 fns		10 Jul 2014 16:30	New Function	10
455	CoCoALib		Normal	Which sets of generators in an ideal?		14 Jul 2014 15:17	Various	0
432	CoCoALib		Normal	Semantics of IsPrintedWithMinus		14 Jul 2014 18:13	Various	10
427	CoCoALib		Normal	Error names and error messages (current design)		11 May 2017 10:57	Data Structures	10
360	CoCoALib		Normal	CoCoAServer: what future, what issues?		28 Apr 2017 11:19	Various	0
308	CoCoALib		High	Error: ERR::NotNonZero instead of ERR::ZeroRingElem?		27 Mar 2024 17:37	Renaming	40
305	CoCoALib		Normal	FreeModule: unique copy?		10 Dec 2023 20:43	Tidying	10
297	CoCoALib		Normal	Modules design: brainstorming		31 Jul 2014 14:55	New Function	30
272	CoCoALib		Normal	Forward declarations		07 Apr 2014 18:14	Tidying	0
263	CoCoALib		High	Move the various <matrix>::mySetEntry procedures into MatrixBase		01 Aug 2014 16:29	Tidying	0