

## CoCoALib - Issues

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1814	CoCoALib		Normal	Ensure tests do not need too much RAM		15 Apr 2024 19:05	Safety	20
1813	CoCoALib		Normal	Some tests have become slower		07 Apr 2024 21:53	Safety	10
1703	CoCoALib		Normal	Threadsaafety, multithreading: optional fn arg (or separate fn)	John Abbott	07 Mar 2024 20:04	Safety	80
1691	CoCoALib		Normal	Random and threadsafe?		15 Feb 2024 22:38	Safety	0
1678	CoCoALib		Normal	Unsigned long for indexes (& sizes?)		07 Mar 2024 20:25	Safety	10
1655	CoCoALib		Normal	Remove ability to compile CoCoALib against UNINSTALLED gmp?	John Abbott	14 Feb 2022 10:00	Safety	100
1625	CoCoALib		Normal	Use new C++ keyword override	John Abbott	04 Feb 2022 21:48	Safety	100
1600	CoCoALib		Normal	Detect updated versions of external libs		16 Feb 2024 10:02	Safety	10
1590	CoCoALib		Normal	CRASH: LinKerZZ	John Abbott	16 Sep 2021 12:27	Safety	100
1585	CoCoALib		High	CRASH/ABORT: GMP overflow	John Abbott	22 Sep 2021 17:45	Safety	100
1575	CoCoALib		Normal	DynamicBitset missing arg checks	Anna Maria Bigatti	16 Feb 2024 09:46	Safety	0
1563	CoCoALib		Normal	BigRat: ctor from machine int	John Abbott	29 Jan 2021 11:26	Safety	100
1547	CoCoALib		Normal	Require decimal mode for ostream?	John Abbott	04 Feb 2022 21:50	Safety	100
1529	CoCoALib		Normal	INPUT questions	John Abbott	17 Feb 2021 11:02	Safety	100
1523	CoCoALib		Normal	Input fns: action when when istream is in bad state?	John Abbott	17 Feb 2021 11:01	Safety	100
1522	CoCoALib		High	SEGV: avoid long linked lists of loaves in MemPools	John Abbott	09 Mar 2023 21:50	Safety	100
1500	CoCoALib		Normal	IsDivisible in a field?	John Abbott	23 Oct 2020 10:57	Safety	100
1409	CoCoALib		Normal	myTestIsPrimary & Co. : fix design	Anna Maria Bigatti	30 Apr 2020 14:20	Safety	100
1395	CoCoALib		Normal	SHA checksum for released code	John Abbott	09 Oct 2020 14:12	Safety	100
1388	CoCoALib		Normal	GlobalManager: create SignalWatcher internally?		01 Mar 2024 09:49	Safety	0
1345	CoCoALib		High	Problem with linking the library	Anna Maria Bigatti	19 Oct 2019 20:28	Safety	100
1260	CoCoALib		High	Fix file permissions after using CVS	John Abbott	12 Feb 2020 16:16	Safety	100
1223	CoCoALib		Normal	NewPolyRing default indet names	John Abbott	10 Oct 2019 19:13	Safety	100
1208	CoCoALib		Normal	New function: Threadsafe RandomLinearForm (CoCoALib)		01 Oct 2019 11:28	Safety	0
1180	CoCoALib		Normal	BigRat(0) unexpectedly compiles! (calls ctor with mpq_t arg)	John Abbott	15 Jan 2021 17:13	Safety	100
1113	CoCoALib		Normal	gcd crashes (Floating point exception)	John Abbott	30 Oct 2019 22:16	Safety	100
1085	CoCoALib		High	Fns with "OUT" args: should they give ERR::MixedRings?	John Abbott	21 Mar 2024 20:29	Safety	100
1083	CoCoALib		Normal	MinPolyQuot: check input (was: MinPolyQuot gives "bad characteristic" error)	Anna Maria Bigatti	15 Dec 2017 16:39	Safety	100
1078	CoCoALib		Normal	makefile: ungraceful when interrupted	John Abbott	08 Nov 2017 18:08	Safety	100
1048	CoCoALib		Normal	Several tests fail when threadsafe-hack is active	John Abbott	22 Apr 2017 22:43	Safety	100
986	CoCoALib		Low	GFan: require version newer than 0.6		22 Apr 2024 20:06	Safety	10

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950	CoCoALib		Normal	factor and SmoothFactor for integers --> FactorINT, FactorINT_TrialDiv, FactorINT_PollardRho	John Abbott	13 Mar 2023 22:02	Safety	100
935	CoCoALib		High	ElimMat, ElimHomogMat: complain about zero or negative weights	Anna Maria Bigatti	13 Feb 2020 10:30	Safety	100
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
894	CoCoALib		Normal	strict enum types: C++11 extension	John Abbott	16 Mar 2024 21:38	Safety	30
860	CoCoALib		Normal	Check impl of RingTwinFloatImpl::mysRational	John Abbott	28 Apr 2017 09:33	Safety	100
835	CoCoALib		Normal	Make Mario's new code threadsafe		09 Dec 2015 16:48	Safety	0
814	CoCoALib		Normal	PPOrdering: matrix ordering, what rings are allowed.	John Abbott	28 Apr 2017 09:33	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
806	CoCoALib		Low	AssignZero for matrix	John Abbott	23 Mar 2016 15:31	Safety	100
804	CoCoALib		Normal	ZeroMat and IdentityMat should produce a matrix not a ConstMatrixView	John Abbott	23 Mar 2016 15:20	Safety	100
789	CoCoALib		Normal	NumTheory: behaviour of InvMod when inverse does not exist	John Abbott	08 Nov 2017 17:44	Safety	100
787	CoCoALib		Normal	Remove refcounts from RingElem?		19 Oct 2015 17:08	Safety	0
784	CoCoALib		Normal	threadsafety: Scott Meyers's advice about cached values		18 Jan 2016 18:12	Safety	10
739	CoCoALib		Immediate	Move code in examples into namespace CoCoA	John Abbott	01 Jul 2015 18:38	Safety	100
707	CoCoALib		Normal	MatrixOrderingMod32749Impl: test and write documentation!	Anna Maria Bigatti	08 Mar 2024 18:15	Safety	10
696	CoCoALib		Normal	test-OrderedRing: activate or eliminate?	John Abbott	28 Apr 2017 09:33	Safety	100
682	CoCoALib		Low	PPMonoid: add fn to check for overflow in products		14 Apr 2015 11:23	Safety	0
679	CoCoALib		High	power for PPs is too slow	John Abbott	29 Jun 2015 13:03	Safety	100
649	CoCoALib		Normal	Make SmallFpImpl safer to use	John Abbott	02 Feb 2016 12:36	Safety	100
647	CoCoALib		Normal	Unique copies of free modules?		10 Nov 2014 16:55	Safety	0
645	CoCoALib		Normal	Automatic mapping of RingElem: user selectable at run-time (GlobalManager?)	John Abbott	16 Feb 2024 17:41	Safety	100
639	CoCoALib		Low	Shadow CoCoA namespace to help guarantee portability (without ambiguity)		28 Oct 2014 15:34	Safety	0
586	CoCoALib		High	BigInt ctor from a machine integer	John Abbott	09 Oct 2015 20:18	Safety	100
562	CoCoALib		Normal	Subrings		29 Sep 2020 13:19	Safety	0
551	CoCoALib		Normal	Reconsider overloaded virtual mem fns		09 Jul 2014 18:00	Safety	0
497	CoCoALib		Normal	Clang: automatic bug finding		04 Apr 2014 17:20	Safety	0
482	CoCoALib		Normal	Unique copies of rings -- smart ctor		20 Oct 2015 14:33	Safety	10
429	CoCoALib		Normal	factorization: public data fields, or mem fns allowing the fields to be updated.	John Abbott	17 Apr 2014 09:50	Safety	100
428	CoCoALib		Normal	PPMonoidOv is not threadsafe	John Abbott	17 Apr 2014 09:49	Safety	100

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413	CoCoALib		High	OrdvArith: use of a single buffer is NOT THREADSAFE	John Abbott	03 Apr 2014 11:53	Safety	100
391	CoCoALib		Normal	Check consistency of template class factorization		03 Apr 2014 11:54	Safety	100
351	CoCoALib		Normal	Problems with DenseMatImpl::myResize	Anna Maria Bigatti	17 Apr 2014 08:24	Safety	100
350	CoCoALib		Immediate	problem with "matrix" argument in functions	John Abbott	11 Sep 2014 16:41	Safety	100
298	CoCoALib		High	Valgrind: keep CoCoALib at 0 memory leaks	Anna Maria Bigatti	01 Aug 2014 08:21	Safety	100
269	CoCoALib		Normal	PPMonoids: check for exponent overflow in power function	John Abbott	28 May 2013 18:16	Safety	100
268	CoCoALib		Normal	Exponent range (in power products)	John Abbott	08 Oct 2015 12:10	Safety	100
261	CoCoALib		High	Review the utility of RefRingElem	John Abbott	18 Feb 2013 12:50	Safety	100
190	CoCoALib		High	Subtle ref count bug for poly rings (via CoeffEmbeddingHom)	John Abbott	11 Sep 2014 17:20	Safety	100
180	CoCoALib		Normal	GlobalManager: registration of global variables	John Abbott	08 Nov 2017 17:16	Safety	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
142	CoCoALib		Normal	Improve threadsafety		21 Mar 2024 20:29	Safety	50
138	CoCoALib		Normal	Automatic conversion from bool3 to bool?	John Abbott	15 Apr 2014 12:54	Safety	100
124	CoCoALib		Normal	change long args in matrices into MachineInt (?)	John Abbott	30 May 2013 15:55	Safety	100
73	CoCoALib	Feature #68: cleanup doc for matrix, MatrixViews, *Matrix*,....	Normal	Repeated rows/cols in submat		17 Jul 2014 14:39	Safety	100