

CoCoALib - Issues

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|--------------------|-------------------|---------------|--------|
| 1791 | CoCoALib | | Urgent | Fix Google-search link in the html documentation | Anna Maria Bigatti | 14 Mar 2024 09:24 | Documentation | 100 |
| 1790 | CoCoALib | | High | saturate with zero ideals | John Abbott | 21 Mar 2024 17:56 | Maths Bugs | 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 |
| 1779 | CoCoALib | | Normal | Radical error with lex (again) | Anna Maria Bigatti | 23 Feb 2024 12:28 | Various | 100 |
| 1773 | CoCoALib | | Normal | CyclotomicFactorIndexes: gave wrong answer | John Abbott | 22 Dec 2023 21:30 | Maths Bugs | 100 |
| 1758 | CoCoALib | | Normal | Graeffe "sign bug" | John Abbott | 22 Dec 2023 20:59 | Maths Bugs | 100 |
| 1749 | CoCoALib | | High | Configuration hiccups on Mac M1 | John Abbott | 21 Mar 2024 20:31 | Portability | 100 |
| 1729 | CoCoALib | | Urgent | Bug HilbertPoly of zero-dimensional ideals | Anna Maria Bigatti | 12 Apr 2023 14:45 | Maths Bugs | 100 |
| 1726 | CoCoALib | | Normal | Dangling references to temporaries | John Abbott | 25 Mar 2024 18:05 | Portability | 100 |
| 1725 | CoCoALib | | High | resultant: gives wrong answer when should be 0 | John Abbott | 09 Mar 2023 20:49 | Maths Bugs | 100 |
| 1719 | CoCoALib | | Normal | FactorINT has got worse | John Abbott | 22 Apr 2024 20:00 | Improving | 100 |
| 1712 | CoCoALib | | Normal | Windows: New configuration script | John Abbott | 13 Mar 2023 21:50 | Portability | 100 |
| 1710 | CoCoALib | | Urgent | IsSqFree, IsIrred bugs in ZZ[x] and QQ[x] | John Abbott | 07 Mar 2023 20:55 | Maths Bugs | 100 |
| 1690 | CoCoALib | | High | resultant gives wrong answer if an arg has deg 0 | John Abbott | 18 Jan 2023 18:33 | Maths Bugs | 100 |
| 1661 | CoCoALib | | Normal | Microsoft: cannot compile with signal handling | Nico Mexis | 11 Apr 2024 10:10 | Portability | 100 |
| 1656 | CoCoALib | | Normal | SEGV in resultant | John Abbott | 04 Feb 2022 21:33 | Maths Bugs | 100 |
| 1641 | CoCoALib | | High | gcd does not recognize univariate input | John Abbott | 21 Mar 2024 20:18 | Improving | 100 |
| 1605 | CoCoALib | | Normal | binomial: domain of defn? | John Abbott | 14 Sep 2021 12:01 | Tidying | 100 |
| 1601 | CoCoALib | | Normal | Compilation ambiguity | John Abbott | 04 Feb 2022 21:44 | Portability | 100 |
| 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 |
| 1579 | CoCoALib | | Low | Readexpr/RingElem: unhelpful error message when input is wrong | John Abbott | 23 Feb 2024 12:39 | Improving | 100 |
| 1570 | CoCoALib | | Normal | FloatStr sometimes produces NUL chars | John Abbott | 16 Sep 2021 12:32 | Maths Bugs | 100 |
| 1565 | CoCoALib | | Normal | IsInRadical: gives "weird" error | John Abbott | 16 Sep 2021 12:49 | Maths Bugs | 100 |
| 1522 | CoCoALib | | High | SEGV: avoid long linked lists of loaves in MemPools | John Abbott | 09 Mar 2023 21:50 | Safety | 100 |
| 1484 | CoCoALib | | Normal | ker bug (quotientinghom for R/ideal()) | Anna Maria Bigatti | 16 Sep 2021 13:33 | Maths Bugs | 100 |
| 1473 | CoCoALib | | Normal | isystem not working as expected | John Abbott | 14 Sep 2021 11:56 | Portability | 100 |
| 1458 | CoCoALib | | Normal | Redesign interrupt mechanism? | John Abbott | 07 Mar 2022 10:07 | Improving | 100 |
| 1449 | CoCoALib | | Urgent | Bivariate factor bug: sometimes a factor is reducible | John Abbott | 20 May 2020 13:26 | Maths Bugs | 100 |
| 1426 | CoCoALib | | High | Main Makefile: does not rebuild dependencies | John Abbott | 04 Mar 2020 14:20 | Makefile | 100 |
| 1423 | CoCoALib | | Normal | Radical 0-dim NYI? missing case for GBasisByHomog | Anna Maria Bigatti | 25 Sep 2020 16:58 | Improving | 100 |

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| 1416 | CoCoALib | | Normal | IdealOfProjectivePoints and MinGens | Anna Maria Bigatti | 04 Mar 2020 14:19 | Maths Bugs | 100 |
| 1411 | CoCoALib | | Normal | IsPrimary sometimes wrong | John Abbott | 03 Feb 2020 15:42 | Maths Bugs | 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 |
| 1380 | CoCoALib | | Normal | Make IsZeroDim more robust | John Abbott | 10 Jan 2020 12:29 | Improving | 100 |
| 1379 | CoCoALib | | High | Fails to recognize zero-dim ideal | Anna Maria Bigatti | 10 Jan 2020 12:17 | Maths Bugs | 100 |
| 1376 | CoCoALib | | Normal | GBasisTimeout: not working as expected | John Abbott | 16 Sep 2021 13:51 | Improving | 100 |
| 1362 | CoCoALib | | Normal | GBasis verbose mode: some output is on cerr/clog | John Abbott | 12 Feb 2020 18:14 | Tidying | 100 |
| 1361 | CoCoALib | | Low | Compilation fails when compiling with libgsl | Florian Walsh | 03 Feb 2024 19:56 | Portability | 100 |
| 1345 | CoCoALib | | High | Problem with linking the library | Anna Maria Bigatti | 19 Oct 2019 20:28 | Safety | 100 |
| 1331 | CoCoALib | | Normal | adj: for matrices 7x7 and bigger | John Abbott | 28 Oct 2020 23:17 | Maths Bugs | 100 |
| 1319 | CoCoALib | | Normal | Problem rebuilding dependencies when file PREPROCESSOR_DEFNS.H does not exist | John Abbott | 11 Feb 2020 12:22 | Improving | 100 |
| 1317 | CoCoALib | | Normal | txt2tags: LaTeX/PDF section numbers over 99 in TOC | Anna Maria Bigatti | 10 Oct 2019 18:41 | Documentation | 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 |
| 1308 | CoCoALib | | Normal | test-GFan1 fails | John Abbott | 11 Feb 2020 18:28 | Portability | 100 |
| 1300 | CoCoALib | | Normal | CoprimeFactorBasis: mishandles negative args | John Abbott | 01 Oct 2019 13:34 | Maths Bugs | 100 |
| 1264 | CoCoALib | | Urgent | Remove unnecessary files before making CoCoALib release TGZ files | John Abbott | 12 Mar 2020 22:28 | Tidying | 100 |
| 1260 | CoCoALib | | High | Fix file permissions after using CVS | John Abbott | 12 Feb 2020 16:16 | Safety | 100 |
| 1256 | CoCoALib | | High | RingID: different values in test-output on different platforms | John Abbott | 27 Mar 2019 17:21 | Portability | 100 |
| 1250 | CoCoALib | | Urgent | SEGV: CoCoALib with Normaliz in multithreading | Anna Maria Bigatti | 10 Oct 2019 19:12 | Improving | 100 |
| 1248 | CoCoALib | | High | MinPolyQuot: guaranteed and ideal without GBasis | Anna Maria Bigatti | 31 Oct 2019 15:55 | Maths Bugs | 100 |
| 1211 | CoCoALib | | High | HilbertSeries should check grading | Anna Maria Bigatti | 03 Oct 2019 10:37 | Maths Bugs | 100 |
| 1205 | CoCoALib | | Urgent | SyzOfGens: bug with zero generators | Anna Maria Bigatti | 03 Aug 2018 18:09 | Improving | 100 |
| 1199 | CoCoALib | | Normal | GCD bug with high degree arg | Anna Maria Bigatti | 03 Aug 2018 15:47 | Maths Bugs | 100 |
| 1185 | CoCoALib | | High | factor: multivariate, wrong RemainingFactor (sign wrong) | John Abbott | 31 Jul 2018 13:15 | Maths Bugs | 100 |
| 1143 | CoCoALib | | Urgent | Polynomial multiplication wrong for non integral rings | John Abbott | 20 Dec 2017 15:48 | Maths Bugs | 100 |
| 1135 | CoCoALib | | Normal | Compiler with --debug configuration option gives errors | John Abbott | 15 Dec 2017 15:16 | Tidying | 100 |
| 1121 | CoCoALib | | Normal | PrevPrime and NextPrime anomalies | John Abbott | 03 Aug 2018 15:48 | Maths Bugs | 100 |
| 1113 | CoCoALib | | Normal | gcd crashes (Floating point exception) | John Abbott | 30 Oct 2019 22:16 | Safety | 100 |
| 1101 | CoCoALib | | High | Bug in MinPolyModular (insufficient rational reconstruction) | Anna Maria Bigatti | 15 Dec 2017 16:42 | Maths Bugs | 100 |
| 1088 | CoCoALib | | Normal | MinPolyQuot: runs out of primes | Anna Maria Bigatti | 08 Nov 2017 14:39 | Improving | 100 |

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| 1083 | CoCoALib | | Normal | MinPolyQuot: check input (was: MinPolyQuot gives "bad characteristic" error) | Anna Maria Bigatti | 15 Dec 2017 16:39 | Safety | 100 |
| 1082 | CoCoALib | | High | factor in ZZ[x] gives errors | John Abbott | 08 Nov 2017 14:12 | Maths Bugs | 100 |
| 1081 | CoCoALib | | Normal | ideal() * RingElem gives error | Anna Maria Bigatti | 08 Nov 2017 17:03 | Maths Bugs | 100 |
| 1078 | CoCoALib | | Normal | makefile: ungraceful when interrupted | John Abbott | 08 Nov 2017 18:08 | Safety | 100 |
| 1064 | CoCoALib | | Normal | Bug in MinPolyModular (ugly prime) | Anna Maria Bigatti | 10 Nov 2017 12:16 | Improving | 100 |
| 1048 | CoCoALib | | Normal | Several tests fail when threadsafe-hack is active | John Abbott | 22 Apr 2017 22:43 | Safety | 100 |
| 1015 | CoCoALib | | Normal | Bruns SEGV: SparsePolyIter/DMPI problem | John Abbott | 28 Apr 2017 09:30 | Data Structures | 100 |
| 1004 | CoCoALib | | High | In scripts: use portable test for absolute paths | John Abbott | 28 Apr 2017 09:31 | Portability | 100 |
| 975 | CoCoALib | | High | configure: possibly ignore GMP compilation flags | John Abbott | 15 Dec 2017 15:08 | Portability | 100 |
| 971 | CoCoALib | | Normal | CheckForInterrupt does not work in the expected way | John Abbott | 28 Apr 2017 09:30 | Improving | 100 |
| 956 | CoCoALib | | Normal | determinant: fails for 0x0 matrix (SEGV) | John Abbott | 28 Apr 2017 09:29 | Maths Bugs | 100 |
| 938 | CoCoALib | | Urgent | ReadExpr: misreads 2/3^4 | John Abbott | 18 Nov 2016 22:23 | Maths Bugs | 100 |
| 936 | CoCoALib | | Normal | ReadExpr: cannot handle exponent which is not integer literal | John Abbott | 18 Nov 2016 22:22 | Improving | 100 |
| 935 | CoCoALib | | High | ElimMat, ElimHomogMat: complain about zero or negative weights | Anna Maria Bigatti | 13 Feb 2020 10:30 | Safety | 100 |
| 905 | CoCoALib | | Normal | txt2tags: double quotes wrong in LaTeX | Anna Maria Bigatti | 10 Oct 2019 19:06 | Documentation | 100 |
| 895 | CoCoALib | | Normal | NumDigits: sometimes gives wrong answer | John Abbott | 28 Apr 2017 09:30 | Improving | 100 |
| 867 | CoCoALib | | Normal | Compilation Error: C++11 and old GMP-Version | John Abbott | 28 Apr 2017 09:35 | Various | 100 |
| 864 | CoCoALib | | Normal | Assignment of rings (esp. derived rings such as PolyRing) | John Abbott | 28 Apr 2017 09:34 | Tidying | 100 |
| 860 | CoCoALib | | Normal | Check impl of RingTwinFloatImpl::myIsRational | John Abbott | 28 Apr 2017 09:33 | Safety | 100 |
| 858 | CoCoALib | | Normal | floor for TwinFloat can produce ERR::SERIOUS | John Abbott | 25 Jun 2016 12:08 | Maths Bugs | 100 |
| 853 | CoCoALib | | Normal | NearestInt can needlessly throw InsufficientPrecision | John Abbott | 05 Oct 2016 16:33 | Maths Bugs | 100 |
| 834 | CoCoALib | | Normal | Fix test failures (after revising MatrixForOrdering) | Anna Maria Bigatti | 24 Mar 2016 11:42 | Tidying | 100 |
| 831 | CoCoALib | | Normal | primary.cocoa5 | Anna Maria Bigatti | 22 Mar 2016 17:42 | 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 |
| 821 | CoCoALib | | Normal | IsTermOrdering | John Abbott | 24 Mar 2016 12:02 | Tidying | 100 |
| 820 | CoCoALib | | High | NewMatMinimize, NewMatCompleteOrd - a godforsaken mess! | John Abbott | 24 Mar 2016 18:09 | Tidying | 100 |
| 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 |
| 804 | CoCoALib | | Normal | ZeroMat and IdentityMat should produce a matrix not a ConstMatrixView | John Abbott | 23 Mar 2016 15:20 | Safety | 100 |
| 793 | CoCoALib | | Normal | compilation on fedora 23: some worrying "error messages" | John Abbott | 15 Dec 2017 16:59 | Makefile | 100 |

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| 790 | CoCoALib | | Normal | RingDistrMPolyInIFpPPIImpl::mySummandPool frees ZERO PTR many times | John Abbott | 28 Apr 2017 09:32 | Tidying | 100 |
| 783 | CoCoALib | | Normal | abs for MachineInt | John Abbott | 23 Mar 2016 15:27 | Various | 100 |
| 776 | CoCoALib | | Normal | FloatStr prints a NUL character | John Abbott | 01 Feb 2016 14:23 | Maths Bugs | 100 |
| 756 | CoCoALib | | Normal | frobby (v0.9.0) does not compile with g++-4.8 | John Abbott | 06 Nov 2017 16:48 | Portability | 100 |
| 736 | CoCoALib | | Normal | QuotientRing: is it correct to prohibit quotient by ideal(1)? | Anna Maria Bigatti | 27 Jan 2020 17:43 | Improving | 100 |
| 705 | CoCoALib | | Normal | DetDirect calls myAddMul with 0 argument -- funny compilation problem?? | Anna Maria Bigatti | 26 Jun 2015 16:15 | Improving | 100 |
| 693 | CoCoALib | | Normal | Makefile_dependencies in src/tests/ | John Abbott | 15 Dec 2017 17:21 | Tidying | 100 |
| 666 | CoCoALib | | Urgent | RatReconstructByLattice fails in some simple cases | John Abbott | 25 Jun 2015 15:16 | Maths Bugs | 100 |
| 648 | CoCoALib | | High | QBGenerator crashes | John Abbott | 17 Nov 2014 11:38 | Maths Bugs | 100 |
| 631 | CoCoALib | | Normal | Ambiguous: rank for matrix (in ex-matrix1.C) | John Abbott | 30 Jun 2015 15:07 | Portability | 100 |
| 593 | CoCoALib | | High | Temporary directories used during configuration | John Abbott | 08 Nov 2017 18:16 | Tidying | 100 |
| 577 | CoCoALib | | High | Hilbert crashes with > 100 indeterminates | Anna Maria Bigatti | 31 Jul 2014 16:57 | Maths Bugs | 100 |
| 538 | CoCoALib | | Normal | Compilation problem in TmpMorsePaths.C | John Abbott | 20 May 2014 09:52 | Portability | 100 |
| 536 | CoCoALib | | Normal | Make RingBase::myCharacteristic a fn rather than a proc | John Abbott | 09 Mar 2023 21:58 | Tidying | 100 |
| 517 | CoCoALib | | High | MaxSquarableInteger gives wrong ans for unsigned long | John Abbott | 17 Apr 2014 09:26 | Portability | 100 |
| 510 | CoCoALib | | Normal | SyzOfGens (CoCoALib): fix shifts | Anna Maria Bigatti | 17 Apr 2014 16:36 | Maths Bugs | 100 |
| 428 | CoCoALib | | Normal | PPMonoidOv is not threadsafe | John Abbott | 17 Apr 2014 09:49 | Safety | 100 |
| 413 | CoCoALib | | High | OrdvArith: use of a single buffer is NOT THREADSAFE | John Abbott | 03 Apr 2014 11:53 | Safety | 100 |
| 389 | CoCoALib | | Normal | problem loading library.H (parallel make -j4) | Anna Maria Bigatti | 29 Oct 2013 13:31 | Documentation | 100 |
| 355 | CoCoALib | | Urgent | Colon of zero ideal fails (zero-divisors) | Anna Maria Bigatti | 30 Oct 2013 10:52 | Maths Bugs | 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 |
| 349 | CoCoALib | | Urgent | IdealOfPoints: gens are actually a GBasis | Anna Maria Bigatti | 29 Oct 2013 13:39 | New Function | 100 |
| 335 | CoCoALib | | Urgent | Equality of (sub)modules | Anna Maria Bigatti | 29 Oct 2013 13:33 | New Function | 100 |
| 327 | CoCoALib | | Normal | C++ integer shift operators | John Abbott | 04 Mar 2013 11:27 | Portability | 0 |
| 264 | CoCoALib | | High | Compilation problem with "degree.H" (inline fn defns) | | 16 Jul 2014 14:42 | Various | 100 |
| 228 | CoCoALib | | Normal | libcocoa sometimes built without its index | John Abbott | 28 Apr 2017 16:14 | Portability | 100 |
| 199 | CoCoALib | | Normal | CFApprox: division by zero | John Abbott | 29 Jun 2012 17:23 | Maths Bugs | 100 |
| 190 | CoCoALib | | High | Subtle ref count bug for poly rings (via CoeffEmbeddingHom) | John Abbott | 11 Sep 2014 17:20 | 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 |
| 155 | CoCoALib | | Normal | gcd: multivariate over non-prime finite field | John Abbott | 11 May 2012 19:01 | Various | 100 |
| 135 | CoCoALib | | Normal | Revise interface to SmallFpImpl & friends | John Abbott | 27 May 2013 14:22 | Tidying | 100 |

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| 119 | CoCoALib | | Normal | CoCoA4io | John Abbott | 29 May 2013 11:36 | Tidying | 100 |
| 111 | CoCoALib | | Normal | Mod fn for computing remainder | John Abbott | 13 Mar 2024 21:01 | Documentation | 100 |
| 89 | CoCoALib | | High | MachineInt or long as fn arg type for indices | John Abbott | 31 May 2013 16:53 | Tidying | 100 |
| 85 | CoCoALib | | High | QuotientRing problem | Anna Maria Bigatti | 05 Jul 2012 10:11 | Maths Bugs | 100 |
| 73 | CoCoALib | Feature #68: cleanup doc for matrix, MatrixViews, *Matrix*,.... | Normal | Repeated rows/cols in submat | | 17 Jul 2014 14:39 | Safety | 100 |
| 67 | CoCoALib | | Normal | Rename MatrixViews | John Abbott | 17 Apr 2014 18:38 | Renaming | 100 |
| 63 | CoCoALib | | Normal | Add links to examples in documentation | Anna Maria Bigatti | 30 May 2012 13:40 | Documentation | 100 |
| 36 | CoCoALib | | Urgent | Saturation | Anna Maria Bigatti | 05 Dec 2011 18:27 | Maths Bugs | 100 |
| 22 | CoCoALib | | High | Rename PPMonoidEvZZ? | John Abbott | 23 May 2013 16:58 | Renaming | 100 |
| 21 | CoCoALib | | Normal | Rename NumTheory and NumTheoryQQ | Anna Maria Bigatti | 13 Jul 2012 15:28 | Renaming | 100 |
| 15 | CoCoALib | | High | Adjoint of a non-invertible matrix | John Abbott | 16 Sep 2021 13:48 | New Function | 100 |
| 2 | CoCoALib | | Normal | Makefile problem in ROOT and/or src/AlgebraicCore | John Abbott | 12 Feb 2020 15:00 | Makefile | 100 |
| 1 | CoCoALib | | Normal | MachineInteger --> MachineInt | Anna Maria Bigatti | 09 Nov 2011 17:40 | Renaming | 100 |