

CoCoALib - Issues

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|-----------|---|--------------------|-------------------|-----------------|--------|
| 1683 | CoCoALib | | Immediate | Islrred in ZZ[x,y] | John Abbott | 16 Feb 2024 09:39 | Improving | 0 |
| 813 | CoCoALib | | Immediate | Implement "elim" in CoCoALib | Anna Maria Bigatti | 18 Mar 2024 15:58 | New Function | 90 |
| 1667 | CoCoALib | | Urgent | GBasis over ZZ: port to CoCoALib | | 29 Apr 2024 21:13 | Improving | 10 |
| 872 | CoCoALib | | Urgent | LinSolve for matrices over FFp | John Abbott | 08 Mar 2024 17:36 | Improving | 30 |
| 802 | CoCoALib | | Urgent | DivMask: extend interface? | John Abbott | 08 Mar 2024 17:36 | New Function | 50 |
| 743 | CoCoALib | | Urgent | Better errors: give supplementary info about the error | | 15 Mar 2024 18:33 | Improving | 10 |
| 664 | CoCoALib | | Urgent | Impl small non-prime finite fields (using logs) | John Abbott | 14 Mar 2023 19:49 | New Function | 80 |
| 206 | CoCoALib | | Urgent | Matrix equation solving: LinKer | | 22 Mar 2024 09:42 | New Function | 30 |
| 1740 | CoCoALib | | High | MinGens gives non minimal gens *if some deg=0* | Anna Maria Bigatti | 22 Mar 2024 18:04 | Maths Bugs | 30 |
| 1561 | CoCoALib | | High | Doc for module term orderings | | 08 Mar 2024 17:38 | Documentation | 0 |
| 1414 | CoCoALib | | High | Make class RingElemVector? | | 25 Apr 2024 21:53 | Data Structures | 20 |
| 1281 | CoCoALib | | High | Factor of multivariate sometimes prints ERROR | | 21 Jan 2024 20:03 | Maths Bugs | 10 |
| 1280 | CoCoALib | | High | Determinant & Inverse of matrix over non integral domain | John Abbott | 21 Jan 2024 19:43 | Improving | 40 |
| 1233 | CoCoALib | | High | factor SEGV -- too large characteristic | John Abbott | 14 Mar 2023 19:45 | Maths Bugs | 60 |
| 1057 | CoCoALib | | High | Slug: Polynomial ring constructor slow with (big) matrix ordering | Anna Maria Bigatti | 22 Mar 2024 09:31 | Improving | 50 |
| 898 | CoCoALib | | High | New function: cardinality of finite field? | Anna Maria Bigatti | 08 Mar 2024 17:45 | New Function | 20 |
| 313 | CoCoALib | | High | Elim(vector<long>) as PPOrderingCtor | Anna Maria Bigatti | 22 Mar 2024 18:17 | New Function | 30 |
| 308 | CoCoALib | | High | Error: ERR::NotNonZero instead of ERR::ZeroRingElem? | | 27 Mar 2024 17:37 | Renaming | 40 |
| 1812 | CoCoALib | | Normal | Documentation: indexXX.html should be recompiled if version has changed | | 29 Mar 2024 10:37 | Documentation | 0 |
| 1811 | CoCoALib | | Normal | Check include guards | John Abbott | 22 Apr 2024 20:15 | Tidying | 90 |
| 1809 | CoCoALib | | Normal | Make ex-syz.C | Anna Maria Bigatti | 28 Mar 2024 08:45 | Documentation | 10 |
| 1808 | CoCoALib | | Normal | New constructor for PolyRing with elimination ordering | Anna Maria Bigatti | 28 Mar 2024 07:35 | New Function | 10 |
| 1807 | CoCoALib | | Normal | Error codes: "Not..." for "blah must be ..." -- change prefix | | 26 Mar 2024 14:22 | Renaming | 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 |
| 1798 | CoCoALib | | Normal | Computing in sub polyring | | 22 Mar 2024 09:30 | Improving | 0 |
| 1796 | CoCoALib | | Normal | myFinalizeGBasis ("Final clean up") should be more flexible | Anna Maria Bigatti | 22 Mar 2024 16:19 | Improving | 30 |
| 1793 | CoCoALib | | Normal | Use ErrorContext instead of string FnName | | 26 Mar 2024 11:50 | Improving | 60 |
| 1792 | CoCoALib | | Normal | CpuTimeOut: arg of type ErrorContext? | | 18 Mar 2024 20:50 | Tidying | 0 |
| 1787 | CoCoALib | | Normal | Iterator design: compatible with C++STL? Advancing beyond end? | John Abbott | 23 Apr 2024 22:26 | Tidying | 30 |

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| 1782 | CoCoALib | | Normal | Make CoCoALib test file for radical | Anna Maria Bigatti | 01 Mar 2024 09:44 | Tidying | 0 |
| 1778 | CoCoALib | | Normal | Homogenizer | | 25 Apr 2024 21:54 | New Function | 10 |
| 1777 | CoCoALib | | Normal | VerificationLevel: just 3? Low, high, guaranteed? | | 16 Feb 2024 10:00 | Various | 0 |
| 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 |
| 1750 | CoCoALib | | Normal | IdealOfPoints: allow duplicate points? | John Abbott | 08 Mar 2024 18:23 | Improving | 20 |
| 1748 | CoCoALib | | Normal | July 2023 | John Abbott | 08 Mar 2024 08:29 | Various | 0 |
| 1744 | CoCoALib | | Normal | Implement GBMill (aka Groebner Framework) | Anna Maria Bigatti | 25 May 2023 14:30 | Data Structures | 10 |
| 1743 | CoCoALib | | Normal | Implement Truncated GBases for homogeneous input | Anna Maria Bigatti | 19 May 2023 15:42 | New Function | 0 |
| 1742 | CoCoALib | | Normal | MinGens could be faster | Anna Maria Bigatti | 18 May 2023 13:44 | Improving | 10 |
| 1738 | CoCoALib | | Normal | Suggestion about Graded polynomial rings | | 05 May 2023 08:47 | Data Structures | 10 |
| 1737 | CoCoALib | | Normal | Homogenization of an ideal with ZZ^1-grading | Anna Maria Bigatti | 01 Feb 2024 19:59 | Improving | 20 |
| 1736 | CoCoALib | | Normal | Clean TmpGOperations, and remove Tmp prefix | | 28 Apr 2023 16:01 | Tidying | 0 |
| 1730 | CoCoALib | | Normal | ApplySPRCodomain: relax power/exponent check | | 27 Nov 2023 20:30 | Improving | 0 |
| 1727 | CoCoALib | | Normal | Cruft in ExtLibs-Normaliz.C | | 13 Mar 2023 19:01 | Tidying | 0 |
| 1720 | CoCoALib | | Normal | DivAlg in CoCoALib | Anna Maria Bigatti | 25 Mar 2024 17:55 | Tidying | 20 |
| 1711 | CoCoALib | | Normal | Development releases? | Anna Maria Bigatti | 09 Mar 2023 20:56 | Various | 90 |
| 1705 | CoCoALib | | Normal | ProgressReporter: prepare for new loop? | John Abbott | 25 Apr 2024 21:40 | Improving | 80 |
| 1704 | CoCoALib | | Normal | Symlink directory for external files needed by CoCoA-5 | Anna Maria Bigatti | 18 Mar 2024 09:29 | Tidying | 0 |
| 1703 | CoCoALib | | Normal | Threadsafty, multithreading: optional fn arg (or separate fn) | John Abbott | 07 Mar 2024 20:04 | Safety | 80 |
| 1699 | CoCoALib | | Normal | Shell scripts: Shebang line, etc | | 16 Feb 2024 10:01 | Portability | 10 |
| 1685 | CoCoALib | | Normal | RingBase::mySwap needed? | | 07 Mar 2024 20:49 | 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 |
| 1673 | CoCoALib | | Normal | Review examples | | 08 Mar 2023 19:45 | Documentation | 0 |
| 1670 | CoCoALib | | Normal | Build also dynamic/shared library for CoCoALib? | | 07 Mar 2024 21:33 | Portability | 0 |
| 1669 | CoCoALib | | Normal | Review File subtree hierarchy | | 08 Mar 2023 19:56 | Tidying | 0 |
| 1668 | CoCoALib | | Normal | Generalize prim | | 31 Jan 2024 22:03 | Improving | 0 |
| 1665 | CoCoALib | | Normal | Compilation on Windows: problems for normaliz | Anna Maria Bigatti | 18 Mar 2024 09:27 | Documentation | 0 |
| 1664 | CoCoALib | | Normal | geobucket: documentation | | 08 Mar 2023 19:44 | Documentation | 0 |
| 1662 | CoCoALib | | Normal | txt2tags: problem with filenames containing "_" or "-" | Anna Maria Bigatti | 09 Apr 2024 14:21 | Documentation | 80 |
| 1657 | CoCoALib | | Normal | Improve CertifyNotPower | | 31 Jan 2024 22:03 | Improving | 0 |

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| 1643 | CoCoALib | | Normal | rref slower than expected (maybe) [[reduced row echelon form]] | | 01 Mar 2024 09:54 | Improving | 0 |
| 1642 | CoCoALib | | Normal | interreduce: make monic if over finite field? | John Abbott | 16 Feb 2024 20:44 | Improving | 20 |
| 1635 | CoCoALib | | Normal | NR for polys with coeffs in PID | | 16 Feb 2024 09:39 | New Function | 10 |
| 1628 | CoCoALib | | Normal | Unused variables, params, data members | | 11 Mar 2023 12:29 | Tidying | 10 |
| 1611 | CoCoALib | | Normal | Documentation for PrimaryDecomposition | | 16 Feb 2024 09:42 | Documentation | 0 |
| 1600 | CoCoALib | | Normal | Detect updated versions of external libs | | 16 Feb 2024 10:02 | Safety | 10 |
| 1576 | CoCoALib | | Normal | cmp for machine integers | John Abbott | 21 Jan 2024 20:23 | Improving | 20 |
| 1575 | CoCoALib | | Normal | DynamicBitset missing arg checks | Anna Maria Bigatti | 16 Feb 2024 09:46 | Safety | 0 |
| 1572 | CoCoALib | | Normal | Use noexcept | John Abbott | 23 Apr 2024 21:57 | Improving | 70 |
| 1571 | CoCoALib | | Normal | ker_H needs care | Anna Maria Bigatti | 16 Feb 2024 17:49 | Maths Bugs | 10 |
| 1562 | CoCoALib | | Normal | matrix.H and MatrixView.H | | 08 Mar 2023 19:56 | Tidying | 0 |
| 1559 | CoCoALib | | Normal | Default ctor for rings | | 13 Mar 2024 20:42 | Improving | 10 |
| 1542 | CoCoALib | | Normal | gfan does not "deinitialize" | | 08 Mar 2023 19:53 | Various | 30 |
| 1521 | CoCoALib | | Normal | Unexpectedly slow example with larger types for SmallExponent_t | | 08 Mar 2023 19:54 | Various | 0 |
| 1513 | CoCoALib | | Normal | Better test for univariate-ness (and better conversion) | | 16 Mar 2024 21:38 | Improving | 0 |
| 1510 | CoCoALib | | Normal | Documentation for SparsePolyOps? | | 18 Mar 2024 09:45 | Documentation | 30 |
| 1497 | CoCoALib | | Normal | Doc for normaliz fns | | 08 Mar 2023 19:40 | Documentation | 0 |
| 1485 | CoCoALib | | Normal | Simple syntax for making a quotient ring? | | 08 Mar 2023 19:51 | Improving | 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 |
| 1444 | CoCoALib | | Normal | HNF: Hermite Normal Form | | 16 Feb 2024 09:53 | New Function | 0 |
| 1428 | CoCoALib | | Normal | DenseMatrix: use template impl for ctors from vec-vec? | | 07 Mar 2024 20:49 | Tidying | 0 |
| 1422 | CoCoALib | | Normal | Remove flag lhaveGBasisValue? | Anna Maria Bigatti | 16 Feb 2024 17:56 | Data Structures | 10 |
| 1417 | CoCoALib | | Normal | RadicalZeroDim with extra parameter for GBasis timeout | Anna Maria Bigatti | 16 Mar 2024 21:42 | Improving | 20 |
| 1388 | CoCoALib | | Normal | GlobalManager: create SignalWatcher internally? | | 01 Mar 2024 09:49 | Safety | 0 |
| 1381 | CoCoALib | | Normal | Type ideal for ZZ[x[1..n]] | | 16 Feb 2024 09:47 | Data Structures | 10 |
| 1355 | CoCoALib | | Normal | TmplDLP uses srand and time | | 01 Mar 2024 09:50 | Tidying | 0 |
| 1349 | CoCoALib | | Normal | ideal ctor where given gens are a gbasis | | 16 Feb 2024 09:52 | Improving | 10 |
| 1346 | CoCoALib | | Normal | C++14: use the new for loop syntax where appropriate (like cocoa's foreach) | | 22 Apr 2024 21:08 | Improving | 80 |
| 1337 | CoCoALib | | Normal | PrimaryDecomposition: a interesting/pathological example | Anna Maria Bigatti | 08 Mar 2023 21:13 | Improving | 10 |
| 1306 | CoCoALib | | Normal | exgcd over integers (ZZ) | | 08 Mar 2024 17:57 | New Function | 20 |

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| 1263 | CoCoALib | | Normal | Tidy CoCoALib test directory | John Abbott | 07 Mar 2023 20:49 | Tidying | 80 |
| 1255 | CoCoALib | | Normal | Ideals with trivial GBasis | | 08 Mar 2023 19:49 | Improving | 0 |
| 1254 | CoCoALib | | Normal | New function: MinPoly for pseudo-zero-dimensional ideals | Anna Maria Bigatti | 07 Mar 2024 20:25 | New Function | 0 |
| 1242 | CoCoALib | | Normal | C++14: Use type auto where appropriate | | 22 Apr 2024 21:08 | Tidying | 40 |
| 1219 | CoCoALib | | Normal | Frobby version number | | 08 Mar 2023 19:40 | Documentation | 10 |
| 1207 | CoCoALib | | Normal | New function: SubmoduleOfGBasis | | 18 Mar 2024 09:33 | New Function | 0 |
| 1197 | CoCoALib | | Normal | IsZeroDet: new fn | John Abbott | 08 Mar 2024 17:58 | New Function | 40 |
| 1179 | CoCoALib | | Normal | Clean up SparsePolyOps-MonomialIdeals | Anna Maria Bigatti | 22 Mar 2024 09:33 | Tidying | 20 |
| 1176 | CoCoALib | | Normal | interval arithmetic | John Abbott | 10 Mar 2023 17:46 | New Function | 50 |
| 1132 | CoCoALib | | Normal | Canonical homomorphism for (some) polynomial rings? | Anna Maria Bigatti | 08 Mar 2024 18:01 | New Function | 0 |
| 1125 | CoCoALib | | Normal | Separate install script for CoCoALib? | John Abbott | 23 Jan 2024 21:54 | Tidying | 0 |
| 1094 | CoCoALib | | Normal | Revive code for SelfSaturating GBasis | Anna Maria Bigatti | 22 Mar 2024 14:38 | New Function | 50 |
| 967 | CoCoALib | | Normal | Improve saturate | Anna Maria Bigatti | 22 Mar 2024 10:18 | Improving | 70 |
| 958 | CoCoALib | | Normal | New function: multiplicity and dim | Anna Maria Bigatti | 08 Mar 2024 18:15 | New Function | 80 |
| 947 | CoCoALib | | Normal | IsRadical for ideal? | | 23 Jan 2024 22:13 | New Function | 10 |
| 934 | CoCoALib | | Normal | MachineInt: change semantics? | | 22 Apr 2024 21:32 | Safety | 30 |
| 933 | CoCoALib | | Normal | Separate configure scripts for CoCoALib and CoCoA-5 | John Abbott | 23 Jan 2024 21:52 | Portability | 10 |
| 925 | CoCoALib | | Normal | MachineInt or long for args which are indices (yet again) | | 16 Apr 2024 22:29 | Safety | 50 |
| 924 | CoCoALib | | Normal | FlagManager for bool/bool3 flags | Anna Maria Bigatti | 16 Feb 2024 17:57 | Data Structures | 50 |
| 894 | CoCoALib | | Normal | strict enum types: C++11 extension | John Abbott | 25 Apr 2024 21:49 | Safety | 30 |
| 871 | CoCoALib | | Normal | Redesign ideals | | 31 Oct 2023 11:24 | Data Structures | 0 |
| 866 | CoCoALib | | Normal | implicit, ImplicitHypersurface: improve output verification | | 22 Mar 2024 09:43 | Tidying | 20 |
| 849 | CoCoALib | | Normal | Cleanup MinPoly code | Anna Maria Bigatti | 08 Mar 2024 18:15 | Tidying | 10 |
| 801 | CoCoALib | | Normal | Test whether a symbol is in a ring | | 07 Mar 2024 21:36 | New Function | 0 |
| 777 | CoCoALib | | Normal | SLUG: elimination | Anna Maria Bigatti | 22 Mar 2024 18:12 | Improving | 10 |
| 710 | CoCoALib | | Normal | Update normaliz interface? | | 16 Feb 2024 18:25 | Improving | 10 |
| 707 | CoCoALib | | Normal | MatrixOrderingMod32749Impl: test and write documentation! | Anna Maria Bigatti | 25 Apr 2024 21:46 | Safety | 50 |
| 680 | CoCoALib | | Normal | DistrMPolyClean does not use MemPool for summands? | John Abbott | 07 Mar 2023 20:49 | Tidying | 70 |
| 601 | CoCoALib | | Normal | LongRange: in which file should it be declared/defined? | | 08 Mar 2023 20:45 | Tidying | 10 |
| 598 | CoCoALib | | Normal | Syzygy for modules: non-homogeneous module | Anna Maria Bigatti | 27 Mar 2024 17:31 | Improving | 40 |
| 582 | CoCoALib | | Normal | Error codes: use same code for "not poly ring" and "not elem poly ring" | | 26 Mar 2024 14:36 | Tidying | 30 |
| 262 | CoCoALib | | Normal | Play with GIT | | 08 Mar 2023 19:54 | Various | 0 |

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| 222 | CoCoALib | | Normal | Printing polynomials - spaces between terms | | 14 Mar 2023 21:27 | Various | 30 |
| 142 | CoCoALib | | Normal | Improve threadsafety | | 21 Mar 2024 20:29 | Safety | 50 |
| 125 | CoCoALib | | Normal | Matrix equation solving; linear system solving | John Abbott | 18 Mar 2024 10:00 | New Function | 50 |
| 1764 | CoCoALib | | Low | Verbosity messages: avoid printing BIG values | | 25 Apr 2024 21:44 | Improving | 10 |
| 1733 | CoCoALib | | Low | FactorINT: funny order | John Abbott | 22 Apr 2024 19:51 | Improving | 60 |
| 1715 | CoCoALib | | Low | ProductBigInt (also ProductBigRat???) | | 23 Jan 2024 22:14 | New Function | 0 |
| 1609 | CoCoALib | | Low | Clean time.C | | 08 Mar 2023 19:54 | Tidying | 0 |
| 1394 | CoCoALib | | Low | Oddly slow GBasis computation (slow final cleanup) | Anna Maria Bigatti | 16 Apr 2024 22:46 | Improving | 70 |
| 1370 | CoCoALib | | Low | RingID counter increased inside some functions | | 31 Jan 2024 22:19 | Improving | 0 |
| 1193 | CoCoALib | | Low | Naming convention mistakes | | 08 Mar 2023 20:52 | Renaming | 0 |
| 1118 | CoCoALib | | Low | SLUG: factorization of x^{9999} | | 31 Jan 2024 22:20 | Improving | 10 |