

CoCoALib - CoCoALib-0.99800 (Mar 2022)

| # | Priority | Subject | Assignee | Updated | Category | % Done | Estimated time |
|----------------------------|-----------|---|--------------------|-------------------|-----------------|--------|----------------|
| Data Structures (1) | | | | | | | |
| 152 | Low | Replace bool3 by tribool | John Abbott | 29 Jan 2021 20:12 | Data Structures | 100 | 2.9 |
| Documentation (7) | | | | | | | |
| 1674 | Immediate | DocTeX.t2t missing several "index entries" | Anna Maria Bigatti | 18 Mar 2022 10:26 | Documentation | 100 | 2.01 |
| 1612 | Urgent | Merge the doc file RadicalMembership.txt into ideal.txt | Anna Maria Bigatti | 04 Mar 2022 17:36 | Documentation | 100 | 1.51 |
| 1591 | High | Compilation of Normaliz | Anna Maria Bigatti | 07 Mar 2022 10:06 | Documentation | 100 | 5.01 |
| 467 | Normal | Keep CoCoALib web page up to date! All pages! | Anna Maria Bigatti | 18 Feb 2022 15:32 | Documentation | 100 | 1.51 |
| 1499 | Normal | factorization: allow zero as exponent? | John Abbott | 26 Oct 2020 12:26 | Documentation | 100 | 1.81 |
| 1618 | Normal | Tidy ex-RingElem2 | John Abbott | 04 Feb 2022 21:21 | Documentation | 100 | 0.8 |
| 1700 | Normal | boost_1_80_0 | John Abbott | 23 Nov 2022 17:36 | Documentation | 100 | 3.99 |
| Improving (17) | | | | | | | |
| 786 | Normal | MemPool: review min and max loaf sizes | Anna Maria Bigatti | 16 Sep 2021 13:38 | Improving | 100 | 4.44 |
| 1391 | Normal | RingElems: syntax with [and] ? | Anna Maria Bigatti | 08 Jan 2021 13:03 | Improving | 100 | 5.77 |
| 1423 | Normal | Radical 0-dim NYI? missing case for GBasisByHomog | Anna Maria Bigatti | 25 Sep 2020 16:58 | Improving | 100 | 0.51 |
| 1589 | Normal | IdealOfPoints: allow matrix of points to be defined over "wrong" ring | Anna Maria Bigatti | 04 Feb 2022 22:07 | Improving | 100 | 1.11 |
| 1598 | Normal | RingHom: implement phi(X) as apply(phi, X) also for X vector and matrix | Anna Maria Bigatti | 18 Feb 2022 15:24 | Improving | 100 | 8.51 |
| 897 | Normal | SimplestBigRatBetween: why is it so slow? | John Abbott | 16 Sep 2021 13:47 | Improving | 100 | 2.49 |
| 1375 | Normal | Radical 0-dim: varied timings | John Abbott | 04 Feb 2022 21:20 | Improving | 100 | 4.9 |
| 1376 | Normal | GBasisTimeout: not working as expected | John Abbott | 16 Sep 2021 13:51 | Improving | 100 | 5.23 |
| 1457 | Normal | Make SmoothFactor interruptible | John Abbott | 26 Oct 2020 21:37 | Improving | 100 | 0.99 |
| 1462 | Normal | Change CoCoA_ERROR into CoCoA_THROW_ERROR | John Abbott | 14 Oct 2020 14:06 | Improving | 100 | 4.71 |
| 1467 | Normal | Change syntax apply(phi,M) into phi(M)? | John Abbott | 18 Feb 2022 15:24 | Improving | 100 | 2.01 |
| 1558 | Normal | CpuTimeLimit: more frequent clock checks | John Abbott | 20 Sep 2021 15:41 | Improving | 100 | 6.99 |
| 1627 | Normal | Use keyword "delete" for deleted functions | John Abbott | 04 Feb 2022 21:23 | Improving | 100 | 3.6 |
| 1633 | Normal | Make polynomial multiplication interruptible? | John Abbott | 04 Feb 2022 21:24 | Improving | 100 | 0.99 |
| 1458 | Normal | Redesign interrupt mechanism? | John Abbott | 07 Mar 2022 10:07 | Improving | 100 | 0.51 |
| 722 | Low | valuation slow for large inputs | John Abbott | 07 Oct 2020 22:11 | Improving | 100 | 2.0 |
| 1517 | Low | RandomLinearForm | John Abbott | 04 Feb 2022 21:31 | Improving | 100 | 0.9 |
| Makefile (1) | | | | | | | |

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|-------------------------|----------|--|--------------------|-------------------|--------------|--------|----------------|
| 24 | Normal | object files collected in one directory | Anna Maria Bigatti | 14 Oct 2020 15:35 | Makefile | 100 | 1.01 |
| Maths Bugs (6) | | | | | | | |
| 1484 | Normal | ker bug (quotientinghom for R/ideal()) | Anna Maria Bigatti | 16 Sep 2021 13:33 | Maths Bugs | 100 | 2.52 |
| 1331 | Normal | adj: for matrices 7x7 and bigger | John Abbott | 28 Oct 2020 23:17 | Maths Bugs | 100 | 1.17 |
| 1565 | Normal | IsInRadical: gives "weird" error | John Abbott | 16 Sep 2021 12:49 | Maths Bugs | 100 | 2.51 |
| 1570 | Normal | FloatStr sometimes produces NUL chars | John Abbott | 16 Sep 2021 12:32 | Maths Bugs | 100 | 8.11 |
| 1646 | Normal | radical: could be more clever | John Abbott | 24 Jan 2022 09:07 | Maths Bugs | 100 | 1.33 |
| 1656 | Normal | SEGV in resultant | John Abbott | 04 Feb 2022 21:33 | Maths Bugs | 100 | 0.66 |
| New Function (8) | | | | | | | |
| 1235 | Normal | FreeModule: get canonical basis | Anna Maria Bigatti | 14 Feb 2022 18:25 | New Function | 100 | 1.75 |
| 15 | High | Adjoint of a non-invertible matrix | John Abbott | 16 Sep 2021 13:48 | New Function | 100 | 3.55 |
| 122 | Normal | Porting "LinKer" | John Abbott | 15 Jan 2021 21:10 | New Function | 100 | 0.44 |
| 1405 | Normal | New fn: interreduction | John Abbott | 07 Mar 2022 10:07 | New Function | 100 | 1.01 |
| 1483 | Normal | IsPowerOf2 for rationals | John Abbott | 26 Oct 2020 21:38 | New Function | 100 | 0.25 |
| 1580 | Normal | New fn prim for polys | John Abbott | 16 Feb 2022 20:45 | New Function | 100 | 3.33 |
| 1490 | Normal | New function: MinusOneToPower | John Abbott | 06 Oct 2020 09:53 | New Function | 100 | 0.99 |
| 1436 | Low | Flatten for a matrix | John Abbott | 29 Oct 2020 21:36 | New Function | 100 | 1.41 |
| Portability (7) | | | | | | | |
| 618 | High | Instructions for compiling libnormaliz | Anna Maria Bigatti | 14 Feb 2022 18:22 | Portability | 100 | 2.55 |
| 581 | Normal | C++14: MachineInt | John Abbott | 18 Feb 2022 15:26 | Portability | 100 | 4.7 |
| 861 | Normal | Janet basis code: TmpJB files give some problems with C++11 (using CLANG/LLVM) | John Abbott | 20 Sep 2021 16:17 | Portability | 100 | 3.33 |
| 1221 | Normal | Reconsider design for accessing headers and libs of external libraries | John Abbott | 09 Oct 2020 13:54 | Portability | 100 | 0.22 |
| 1473 | Normal | isystem not working as expected | John Abbott | 14 Sep 2021 11:56 | Portability | 100 | 2.51 |
| 1601 | Normal | Compilation ambiguity | John Abbott | 04 Feb 2022 21:44 | Portability | 100 | 2.22 |
| 794 | Normal | ar gives warnings on fedora 23 | John Abbott | 17 Feb 2021 09:59 | Portability | 100 | 0.2 |
| Renaming (2) | | | | | | | |
| 854 | Normal | Function MakeTermOrd should be renamed MakeTermOrdMat? | Anna Maria Bigatti | 28 Mar 2024 16:25 | Renaming | 100 | 1.77 |
| 1460 | Normal | Name of TensorMat; change to KroneckerProd? | John Abbott | 29 Oct 2020 15:01 | Renaming | 100 | 1.33 |
| Safety (10) | | | | | | | |

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| 1585 | High | CRASH/ABORT: GMP overflow | John Abbott | 22 Sep 2021 17:45 | Safety | 100 | 6.66 |
| 1395 | Normal | SHA checksum for released code | John Abbott | 09 Oct 2020 14:12 | Safety | 100 | 5.01 |
| 1500 | Normal | IsDivisible in a field? | John Abbott | 23 Oct 2020 10:57 | Safety | 100 | 3.99 |
| 1523 | Normal | Input fns: action when when istream is in bad state? | John Abbott | 17 Feb 2021 11:01 | Safety | 100 | 2.22 |
| 1529 | Normal | INPUT questions | John Abbott | 17 Feb 2021 11:02 | Safety | 100 | 3.11 |
| 1547 | Normal | Require decimal mode for ostream? | John Abbott | 04 Feb 2022 21:50 | Safety | 100 | 0.7 |
| 1563 | Normal | BigRat: ctor from machine int | John Abbott | 29 Jan 2021 11:26 | Safety | 100 | 1.55 |
| 1590 | Normal | CRASH: LinKerZZ | John Abbott | 16 Sep 2021 12:27 | Safety | 100 | 1.49 |
| 1625 | Normal | Use new C++ keyword override | John Abbott | 04 Feb 2022 21:48 | Safety | 100 | 12.5 |
| 1655 | Normal | Remove ability to compile CoCoALib against UNINSTALLED gmp? | John Abbott | 14 Feb 2022 10:00 | Safety | 100 | 3.51 |
| Tidying (9) | | | | | | | |
| 1196 | Normal | Split MatrixOps | John Abbott | 29 Oct 2020 21:42 | Tidying | 100 | 3.55 |
| 1170 | Normal | SmoothFactor: slow when a factor is found | John Abbott | 29 Oct 2020 21:51 | Tidying | 100 | 1.01 |
| 1279 | Normal | Tidy up code for matrix determinant | John Abbott | 29 Oct 2020 21:48 | Tidying | 100 | 2.66 |
| 1528 | Normal | MacOS compilation with clang | John Abbott | 23 Feb 2022 11:38 | Tidying | 100 | 2.88 |
| 1605 | Normal | binomial: domain of defn? | John Abbott | 14 Sep 2021 12:01 | Tidying | 100 | 1.51 |
| 1608 | Normal | Domain of definition of NextPrime (and PrevPrime) | John Abbott | 20 Oct 2021 22:09 | Tidying | 100 | 1.01 |
| 1617 | Normal | UnivariateIndetIndex: exact semantics | John Abbott | 12 Nov 2021 11:44 | Tidying | 100 | 1.66 |
| 1515 | Normal | Indets in coeffring are ringelems in coeffring? | John Abbott | 27 Oct 2020 18:01 | Tidying | 100 | 0.99 |
| 1463 | Low | SmoothFactor: use FactorMultiplicity | John Abbott | 29 Oct 2020 21:44 | Tidying | 100 | 5.77 |
| Various (6) | | | | | | | |
| 1592 | High | Normaliz 3.8.10 | Anna Maria Bigatti | 28 Jan 2022 17:34 | Various | 100 | 1.11 |
| 1481 | Normal | Release CoCoALib 0.99800 | Anna Maria Bigatti | 30 Nov 2022 18:31 | Various | 100 | 5.5 |
| 1494 | Normal | Normaliz 3.8.9 | John Abbott | 30 Oct 2020 11:08 | Various | 100 | 2.22 |
| 1538 | Normal | RingElem from string (ReadExpr) | John Abbott | 16 Sep 2021 12:54 | Various | 100 | 1.61 |
| 1555 | Normal | Software licence | John Abbott | 07 Mar 2022 10:04 | Various | 100 | 12.51 |
| 1653 | Normal | Discriminant: return value | John Abbott | 04 Feb 2022 21:52 | Various | 100 | 3.5 |