

## CoCoA-5 - Issues

| #    | Project | Parent task | Priority | Subject                                                               | Assignee           | Updated           | Category                   | % Done |
|------|---------|-------------|----------|-----------------------------------------------------------------------|--------------------|-------------------|----------------------------|--------|
| 1772 | CoCoA-5 |             | Normal   | Continued fraction: arg type RAT or RAT/INT?                          |                    | 28 Nov 2023 22:17 | enhancing/improving        | 0      |
| 1765 | CoCoA-5 |             | Normal   | Difference between seealso and keys?                                  |                    | 16 Oct 2023 20:02 | Manual/documentation       | 0      |
| 1762 | CoCoA-5 |             | Normal   | CoCoA web site "analytics"                                            | Anna Maria Bigatti | 21 Aug 2023 18:20 | enhancing/improving        | 10     |
| 1728 | CoCoA-5 |             | Normal   | Refine Poset impl & doc                                               |                    | 21 Mar 2023 03:33 | enhancing/improving        | 10     |
| 1709 | CoCoA-5 |             | Normal   | Test tut-CoCoLA2                                                      | Anna Maria Bigatti | 19 Apr 2024 17:10 | bug                        | 100    |
| 1698 | CoCoA-5 |             | Normal   | indent: return a string?                                              | Anna Maria Bigatti | 15 Mar 2023 07:30 | enhancing/improving        | 100    |
| 1697 | CoCoA-5 |             | Normal   | Specifying BOOST in configure                                         | John Abbott        | 14 Dec 2022 22:33 | Cleaning                   | 100    |
| 1696 | CoCoA-5 |             | Normal   | Which BOOST libs are actually needed?                                 | John Abbott        | 09 Mar 2023 22:41 | Cleaning                   | 100    |
| 1681 | CoCoA-5 |             | Normal   | Should Starting be case-insensitive?                                  | Anna Maria Bigatti | 22 Dec 2023 11:27 | enhancing/improving        | 20     |
| 1679 | CoCoA-5 |             | Normal   | BuiltinFunctions-GFan includes normaliz?!?                            |                    | 20 Apr 2022 21:49 | Cleaning                   | 0      |
| 1631 | CoCoA-5 |             | Normal   | Use filesystem::path instead of string (packageDir, CoCoAManFileName) |                    | 14 Jan 2022 10:27 | enhancing/improving        | 0      |
| 1626 | CoCoA-5 |             | Normal   | NewMat: should be obsolescent?                                        | John Abbott        | 19 Jan 2024 18:11 | CoCoA-4 function: obsolete | 90     |
| 1615 | CoCoA-5 |             | Normal   | apply: remove for RingHom                                             | John Abbott        | 04 Oct 2021 11:57 | enhancing/improving        | 100    |
| 1568 | CoCoA-5 |             | High     | RMap and image: obsolescent?                                          | Anna Maria Bigatti | 17 Oct 2022 14:04 | CoCoA-4 function: obsolete | 40     |
| 1554 | CoCoA-5 |             | Normal   | cocoa5-emacs-dir or cocoa5-root-dir?                                  | John Abbott        | 04 Mar 2021 17:10 | EmacsUI                    | 100    |
| 1551 | CoCoA-5 |             | Low      | Emacs: avoid making buffer visible in 2 "windows"?                    |                    | 19 Apr 2021 14:11 | EmacsUI                    | 0      |
| 1550 | CoCoA-5 |             | Normal   | version number for CoCoA5 snapshot release?                           | John Abbott        | 08 Jan 2021 11:30 | Release                    | 100    |
| 1546 | CoCoA-5 |             | Normal   | Improve 'describe' or 'print' for a function                          | Anna Maria Bigatti | 04 Mar 2021 17:27 | CoCoA-5 function: new      | 100    |
| 1545 | CoCoA-5 |             | Low      | CoeffOfTerm: in CoCoALibSupplement                                    |                    | 11 Dec 2020 12:30 | enhancing/improving        | 20     |
| 1544 | CoCoA-5 |             | Normal   | CoCoA coding conventions for parser/interpreter?                      |                    | 11 Dec 2020 12:01 | Parser/Interpreter         | 10     |
| 1540 | CoCoA-5 |             | Normal   | Double power                                                          | John Abbott        | 24 Sep 2021 21:45 | enhancing/improving        | 100    |
| 1533 | CoCoA-5 |             | Low      | RingElem and IndetSymbols not compatible                              |                    | 06 Nov 2020 13:56 | enhancing/improving        | 10     |
| 1530 | CoCoA-5 |             | Normal   | VersionInfo -- better field names?                                    | Anna Maria Bigatti | 08 Jan 2021 11:24 | enhancing/improving        | 100    |
| 1525 | CoCoA-5 |             | Normal   | CoCoA Manual: homogenize obsolete/obsolescent entries                 | Anna Maria Bigatti | 18 Feb 2022 17:01 | Manual/documentation       | 100    |
| 1520 | CoCoA-5 |             | Low      | Replace BOOST_FOREACH by new C++14 range for syntax                   | John Abbott        | 29 Jan 2021 12:05 | Cleaning                   | 100    |
| 1519 | CoCoA-5 |             | Normal   | Interpreter fn Value::from can use std::move?                         |                    | 03 Feb 2022 19:54 | enhancing/improving        | 0      |
| 1508 | CoCoA-5 |             | Normal   | Initial ring                                                          |                    | 04 Nov 2021 23:04 | enhancing/improving        | 20     |
| 1504 | CoCoA-5 |             | Normal   | OnlineHelp: XMLFileName                                               | John Abbott        | 23 Feb 2022 11:53 | Manual/documentation       | 100    |
| 1501 | CoCoA-5 |             | Normal   | testing for syntax errors                                             | John Abbott        | 05 Nov 2021 16:53 | enhancing/improving        | 100    |
| 1496 | CoCoA-5 |             | Low      | Use "special" names for variables inside tests                        |                    | 12 Nov 2021 10:06 | enhancing/improving        | 10     |

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| 1495 | CoCoA-5 |             | Normal   | Package exporting nothing?                                           | John Abbott        | 08 Jan 2021 11:51 | enhancing/improving          | 100    |
| 1493 | CoCoA-5 |             | Normal   | Automatic ring mapping in assignment?                                | John Abbott        | 02 Apr 2021 08:54 | enhancing/improving          | 100    |
| 1477 | CoCoA-5 |             | Normal   | Packages: questions from Andraschko                                  | John Abbott        | 14 Mar 2023 21:57 | enhancing/improving          | 100    |
| 1456 | CoCoA-5 |             | Normal   | IntersectList or IntersectionList                                    |                    | 15 Mar 2024 18:24 | Renaming                     | 0      |
| 1453 | CoCoA-5 |             | Normal   | Use symbolic links for release files                                 |                    | 03 Feb 2022 19:39 | Release                      | 0      |
| 1432 | CoCoA-5 |             | Normal   | Emacs UI: cocoa5-shell-check-process vs. process-status              |                    | 05 Nov 2021 16:32 | EmacsUI                      | 0      |
| 1425 | CoCoA-5 |             | Normal   | MakeTerm: implement in C++                                           |                    | 03 Feb 2022 19:22 | enhancing/improving          | 0      |
| 1407 | CoCoA-5 |             | Normal   | Tagged values (Hilbert Series)                                       | Anna Maria Bigatti | 18 Feb 2022 16:22 | bug                          | 100    |
| 1352 | CoCoA-5 |             | Low      | cocoa5 (launch) script: sleep time                                   | John Abbott        | 13 Feb 2020 15:40 | enhancing/improving          | 100    |
| 1348 | CoCoA-5 |             | Normal   | cocoa5 script for releases                                           | Anna Maria Bigatti | 09 Oct 2020 15:48 | enhancing/improving          | 100    |
| 1334 | CoCoA-5 |             | Normal   | sylvester or SylvesterMat?                                           | John Abbott        | 29 Jan 2021 11:59 | Renaming                     | 100    |
| 1327 | CoCoA-5 |             | Normal   | Inconvenient PolyRingHom, PolyAlgebraHom                             | Anna Maria Bigatti | 13 Feb 2020 09:35 | enhancing/improving          | 100    |
| 1292 | CoCoA-5 |             | Normal   | Interpreter: fns which accept INT or RAT                             |                    | 03 Feb 2022 19:33 | Parser/Interpreter           | 0      |
| 1194 | CoCoA-5 |             | Normal   | Rename HilbertBasisKer into LinKerHilbertBasis?                      | Anna Maria Bigatti | 23 Feb 2022 12:37 | Renaming                     | 100    |
| 1192 | CoCoA-5 |             | Normal   | RealRoots: rational roots (but not binary rational roots)            |                    | 04 Nov 2021 20:29 | Cleaning                     | 0      |
| 1164 | CoCoA-5 |             | Normal   | Manual: loading manual entries written by users                      | Anna Maria Bigatti | 10 Oct 2019 19:26 | Manual/documentation         | 100    |
| 1151 | CoCoA-5 |             | Normal   | ConcatList or ConcatLists                                            | John Abbott        | 29 Jan 2021 12:26 | Renaming                     | 100    |
| 1146 | CoCoA-5 |             | Low      | Use Flatpak and/or Snap on Linux?                                    |                    | 06 Oct 2020 15:55 | Portability                  | 0      |
| 1138 | CoCoA-5 |             | Normal   | Latex: matrix                                                        | Anna Maria Bigatti | 11 Dec 2017 16:45 | enhancing/improving          | 0      |
| 1137 | CoCoA-5 |             | Normal   | Latex: ideal                                                         | Anna Maria Bigatti | 12 Dec 2017 15:36 | enhancing/improving          | 100    |
| 1128 | CoCoA-5 |             | Normal   | HomomorphismFns.cpkg5 no longer needed?                              | Anna Maria Bigatti | 16 Jan 2018 15:28 | Cleaning                     | 100    |
| 1127 | CoCoA-5 |             | Normal   | subalgebra package obsolete?                                         | Anna Maria Bigatti | 16 Jan 2018 15:59 | Cleaning                     | 100    |
| 1123 | CoCoA-5 |             | Normal   | Should "minimalize" be obsolescent?                                  | Anna Maria Bigatti | 11 Dec 2017 18:01 | CoCoA-4 function: obsolete   | 100    |
| 1120 | CoCoA-5 |             | Normal   | Web site                                                             | Anna Maria Bigatti | 28 Feb 2020 17:08 | Release                      | 100    |
| 1116 | CoCoA-5 |             | Normal   | Port RowMat, ColMat, MatByRows,... to CoCoA-5                        | Anna Maria Bigatti | 01 Oct 2019 14:40 | enhancing/improving          | 0      |
| 1092 | CoCoA-5 |             | Normal   | Design issues for discussion in July 2017                            |                    | 11 Dec 2017 19:21 | Cleaning                     | 100    |
| 1091 | CoCoA-5 |             | Normal   | ExternalLib-MathSAT: (first) prototype CoCoA-5 interface for MathSAT | Anna Maria Bigatti | 11 Dec 2017 17:58 | CoCoA-5 function: new        | 100    |
| 1075 | CoCoA-5 |             | Low      | LaTeX package: power-product printing                                | Anna Maria Bigatti | 22 Dec 2023 19:30 | enhancing/improving          | 100    |
| 1067 | CoCoA-5 |             | Normal   | "Randomize" and "Randomized" obsolete?                               | John Abbott        | 15 Nov 2017 17:02 | CoCoA-4 function to be added | 100    |
| 1051 | CoCoA-5 |             | Normal   | ReadExpr(P, string) and RingElem(P, string)                          | Anna Maria Bigatti | 28 Apr 2017 19:06 | enhancing/improving          | 100    |
| 1041 | CoCoA-5 |             | Normal   | Separators for elements of a list                                    |                    | 04 Jan 2024 10:14 | enhancing/improving          | 10     |
| 1020 | CoCoA-5 |             | Normal   | Rename minimalized(I) into IdealOfMinGens(I)?                        | Anna Maria Bigatti | 20 Nov 2017 15:47 | Renaming                     | 90     |

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| 1018 | CoCoA-5 |             | Normal   | Interpreter: limit range for ".." operator                                                           | John Abbott        | 28 Apr 2017 16:20 | Parser/Interpreter   | 100    |
| 998  | CoCoA-5 |             | Low      | Emacs UI: sending empty input from cocoa5 buffer                                                     | John Abbott        | 26 Apr 2017 17:19 | EmacsUI              | 100    |
| 997  | CoCoA-5 |             | Normal   | Using protected variable names for "bound variables" (e.g. for, try...endtry)                        | John Abbott        | 04 Mar 2020 19:09 | Parser/Interpreter   | 100    |
| 990  | CoCoA-5 |             | Normal   | CoCoA-5 distribution: tidying                                                                        | John Abbott        | 30 Apr 2020 15:10 | Release              | 100    |
| 989  | CoCoA-5 |             | Normal   | init file obligatory?                                                                                |                    | 01 Dec 2016 11:36 | Cleaning             | 10     |
| 984  | CoCoA-5 |             | Normal   | GroeberFanIdeals: order matrices sometimes have "large" entries                                      |                    | 22 Nov 2021 20:19 | enhancing/improving  | 0      |
| 943  | CoCoA-5 |             | Normal   | Managing credits                                                                                     |                    | 16 May 2017 14:49 | Manual/documentation | 10     |
| 939  | CoCoA-5 |             | Normal   | Rename Fact to factorial?                                                                            | John Abbott        | 15 Nov 2017 17:40 | Renaming             | 100    |
| 929  | CoCoA-5 |             | Normal   | Clean up CoCoALibSupplement                                                                          | Anna Maria Bigatti | 03 Feb 2022 19:48 | Cleaning             | 20     |
| 920  | CoCoA-5 |             | Normal   | Empty matrix: warning, error, or empty matrix?                                                       |                    | 08 Sep 2016 11:45 | Incomplete function  | 10     |
| 917  | CoCoA-5 |             | Normal   | CallOnGroeberFanIdeals: better to use an iterator (or a "stream")                                    |                    | 26 Nov 2016 17:46 | enhancing/improving  | 0      |
| 868  | CoCoA-5 |             | Normal   | Der, Bin: why the capital letter?                                                                    | Anna Maria Bigatti | 28 Apr 2017 09:24 | Renaming             | 100    |
| 782  | CoCoA-5 |             | Normal   | BuiltinFunctions -- getting too long again!                                                          | Anna Maria Bigatti | 16 Feb 2016 17:58 | Parser/Interpreter   | 100    |
| 766  | CoCoA-5 |             | Normal   | CoCoA version number: copy CoCoALib                                                                  | Anna Maria Bigatti | 02 May 2017 14:42 | Release              | 100    |
| 668  | CoCoA-5 |             | Normal   | Remove keyword "weights"?                                                                            | Anna Maria Bigatti | 27 Jul 2015 15:16 | Parser/Interpreter   | 100    |
| 656  | CoCoA-5 |             | Normal   | eval: in which ring should the result be?                                                            |                    | 20 Jan 2015 20:25 | enhancing/improving  | 0      |
| 646  | CoCoA-5 |             | Normal   | Unique copies of free modules?                                                                       |                    | 10 Nov 2014 16:42 | enhancing/improving  | 0      |
| 637  | CoCoA-5 |             | Normal   | Undesirable consequence of automatic mapping of RingElems?                                           | John Abbott        | 27 Oct 2020 18:15 | enhancing/improving  | 100    |
| 636  | CoCoA-5 |             | High     | Distinguish indets from symbols in coeffering in Use command                                         | John Abbott        | 27 Oct 2020 17:59 | enhancing/improving  | 100    |
| 635  | CoCoA-5 |             | High     | Automatic mapping of RingElem (in operation with a compound value)                                   | John Abbott        | 14 Mar 2023 14:59 | enhancing/improving  | 100    |
| 634  | CoCoA-5 |             | Normal   | Symbol in the coeff ring                                                                             | John Abbott        | 22 Oct 2014 20:02 | enhancing/improving  | 100    |
| 610  | CoCoA-5 |             | Low      | Variable It: assign before or after printing                                                         |                    | 04 Nov 2021 20:34 | enhancing/improving  | 0      |
| 607  | CoCoA-5 |             | Normal   | Emacs UI; remove send-buffer?                                                                        | John Abbott        | 02 Sep 2014 11:02 | EmacsUI              | 100    |
| 597  | CoCoA-5 |             | Normal   | Interpreter.C: remove calls to WrongTypeException                                                    |                    | 02 Mar 2020 21:45 | Parser/Interpreter   | 0      |
| 595  | CoCoA-5 |             | High     | rename BigIntValue, IdealValue --> INTValue, IDEALValue? or even INT, IDEAL?                         | Anna Maria Bigatti | 04 Sep 2014 13:33 | Parser/Interpreter   | 100    |
| 576  | CoCoA-5 |             | Normal   | Disallow juxtaposition for string literals?                                                          | John Abbott        | 26 Jun 2014 15:33 | Parser/Interpreter   | 100    |
| 567  | CoCoA-5 |             | Normal   | Emacs UI: coloured syntax in output buffer has problems if error message shows a single double-quote | Anna Maria Bigatti | 02 Jul 2014 16:11 | EmacsUI              | 100    |
| 563  | CoCoA-5 |             | Normal   | Remove ZMOD type from CoCoAInterpreter                                                               | John Abbott        | 01 Sep 2014 18:30 | Parser/Interpreter   | 100    |
| 549  | CoCoA-5 |             | Normal   | Automatic conversion from RINGELEM to INT or RAT                                                     | John Abbott        | 03 Sep 2014 16:00 | Incomplete function  | 100    |
| 546  | CoCoA-5 |             | Normal   | ideal wants LIST of RINGELEM                                                                         | Anna Maria Bigatti | 02 Sep 2014 11:08 | Cleaning             | 100    |

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|-----|---------|-------------|----------|---------------------------------------------------------------------------|--------------------|-------------------|------------------------------|--------|
| 534 | CoCoA-5 |             | Normal   | Remove float.cpkg5                                                        | John Abbott        | 24 Apr 2014 19:09 | Cleaning                     | 100    |
| 532 | CoCoA-5 |             | Normal   | New package: OBSOLESCE                                                    | John Abbott        | 02 Jul 2014 16:54 | CoCoA-4 function: obsolete   | 100    |
| 527 | CoCoA-5 |             | Normal   | GUI: better name for the graphical interface?                             |                    | 27 Jul 2015 19:25 | GUI                          | 0      |
| 525 | CoCoA-5 |             | Normal   | BuiltInFunctions: evalArgAsT1OrT2, evalArgAsT1OrT2OrT3, ... last argument | Anna Maria Bigatti | 27 Aug 2014 18:09 | Cleaning                     | 100    |
| 493 | CoCoA-5 |             | Normal   | Cleanup Hilbert package hp.cpkg5                                          | Anna Maria Bigatti | 31 Jul 2014 15:06 | Cleaning                     | 100    |
| 491 | CoCoA-5 |             | Normal   | Cleaning: Cruft in CoCoA-5 packages                                       |                    | 25 Jul 2018 14:26 | Cleaning                     | 20     |
| 490 | CoCoA-5 |             | Normal   | Duplicate fns: valuation and FactorMultiplicity                           | John Abbott        | 30 Jul 2015 17:15 | Cleaning                     | 100    |
| 483 | CoCoA-5 |             | Normal   | Unique copies of rings in CoCoA-5                                         |                    | 04 Apr 2014 16:42 | CoCoA-5 function: new        | 0      |
| 481 | CoCoA-5 |             | Normal   | Multiline comments -- obsolescent?                                        | John Abbott        | 02 May 2014 17:47 | Parser/Interpreter           | 100    |
| 478 | CoCoA-5 |             | Normal   | Use of dollar-dot (\$.) in packages                                       | John Abbott        | 05 Sep 2016 12:39 | Parser/Interpreter           | 100    |
| 477 | CoCoA-5 |             | Normal   | Eliminate keyword Alias?                                                  |                    | 04 Apr 2014 14:31 | Cleaning                     | 0      |
| 476 | CoCoA-5 |             | Low      | Review utility of package IO                                              | Anna Maria Bigatti | 03 Feb 2022 19:09 | Cleaning                     | 40     |
| 475 | CoCoA-5 |             | Normal   | Eliminate package approx                                                  | John Abbott        | 07 May 2014 17:32 | Cleaning                     | 100    |
| 474 | CoCoA-5 |             | Urgent   | Eliminate package BinRepr                                                 | Anna Maria Bigatti | 03 Feb 2022 19:47 | Cleaning                     | 50     |
| 473 | CoCoA-5 |             | Normal   | Multiline string literals - useful or obsolescent?                        | John Abbott        | 07 May 2014 17:32 | Parser/Interpreter           | 100    |
| 472 | CoCoA-5 |             | Normal   | Record keyword                                                            | John Abbott        | 14 Apr 2014 09:16 | Cleaning                     | 100    |
| 449 | CoCoA-5 |             | Low      | Emacs UI: names of emacs fns                                              | Anna Maria Bigatti | 02 Apr 2014 18:36 | Renaming                     | 100    |
| 424 | CoCoA-5 |             | Low      | Emacs UI: Name of emacs init file                                         | Anna Maria Bigatti | 22 Jul 2014 11:21 | EmacsUI                      | 10     |
| 412 | CoCoA-5 |             | Normal   | intersection (all lower case)                                             | Anna Maria Bigatti | 28 Jul 2014 17:41 | CoCoA-4 function to be added | 20     |
| 403 | CoCoA-5 |             | Normal   | Misuse of dot-dot operator                                                | John Abbott        | 29 Jul 2014 16:26 | Parser/Interpreter           | 100    |
| 376 | CoCoA-5 |             | Normal   | Hilbert: Redesign hp.cpkg5 and public functions in TmpHilbert.C           | Anna Maria Bigatti | 06 Aug 2020 12:21 | Cleaning                     | 10     |
| 364 | CoCoA-5 |             | Normal   | Incr command/function                                                     | John Abbott        | 03 Apr 2014 20:20 | Parser/Interpreter           | 100    |
| 363 | CoCoA-5 |             | Normal   | Colon operator, 2nd arg                                                   |                    | 09 Apr 2014 15:07 | Parser/Interpreter           | 0      |
| 332 | CoCoA-5 |             | Normal   | Approx pts preprocessing fns                                              | John Abbott        | 29 Jul 2015 21:41 | CoCoA-4 function to be added | 100    |
| 307 | CoCoA-5 |             | Normal   | Value::from makes BigIntValue::fromInt obsolete?                          | Anna Maria Bigatti | 05 Sep 2014 11:43 | Parser/Interpreter           | 100    |
| 301 | CoCoA-5 |             | Normal   | How to obtain an integer from a finite field element? AsINT?              | John Abbott        | 24 Apr 2014 20:16 | CoCoA-5 function: new        | 100    |
| 294 | CoCoA-5 |             | Normal   | BuiltInFunctions: General "OneLiner" for arguments of different type      | Anna Maria Bigatti | 05 Sep 2014 11:51 | Parser/Interpreter           | 100    |
| 292 | CoCoA-5 |             | High     | Rename IndetsCalled to indets                                             | John Abbott        | 21 May 2013 18:38 | Renaming                     | 100    |
| 83  | CoCoA-5 |             | Normal   | C++11 compatibility questions                                             |                    | 03 Feb 2022 19:59 | Portability                  | 40     |