

CoCoA-5 - CoCoA-5.?.?

| # | Priority | Subject | Assignee | Updated | Category | % Done | Estimated time |
|--|----------|---|--------------------|-------------------|------------------------------|--------|----------------|
| None (6) | | | | | | | |
| 453 | Normal | Automatic conversion from INT (or RAT) to RINGELEM | | 02 Sep 2014 11:15 | | 20 | |
| 421 | Normal | Allow user to give a name to a ring (in C5) | | 18 Jul 2014 15:05 | | 10 | |
| 230 | Normal | More curiously slow code -- squaring a polynomial | | 04 Apr 2014 15:10 | | 0 | |
| 422 | Normal | Bug or feature for protected name? (Use command) | | 04 Apr 2014 15:09 | | 0 | |
| 633 | Normal | New operations? ScalarProduct(MODULEELEM,LIST), MATRIX * MODULEELEM | | 17 Mar 2017 10:55 | | 0 | |
| 770 | Normal | CoCoA type "cone" | | 22 May 2017 14:12 | | 0 | |
| Cleaning (6) | | | | | | | |
| 491 | Normal | Cleaning: Cruft in CoCoA-5 packages | | 25 Jul 2018 14:26 | Cleaning | 20 | |
| 376 | Normal | Hilbert: Redesign hp.cpkg5 and public functions in TmpHilbert.C | Anna Maria Bigatti | 06 Aug 2020 12:21 | Cleaning | 10 | |
| 989 | Normal | init file obligatory? | | 01 Dec 2016 11:36 | Cleaning | 10 | |
| 477 | Normal | Eliminate keyword Alias? | | 04 Apr 2014 14:31 | Cleaning | 0 | |
| 480 | Normal | gcd too slow for large degree univariate poly | | 30 Oct 2019 22:44 | Cleaning | 0 | |
| 1351 | Normal | Clean up package points.cpkg | | 25 Oct 2019 13:34 | Cleaning | 0 | |
| CoCoA-4 function to be added (10) | | | | | | | |
| 412 | Normal | intersection (all lower case) | Anna Maria Bigatti | 28 Jul 2014 17:41 | CoCoA-4 function to be added | 20 | 4.0 |
| 614 | Normal | Add functions based on MayerVietorisTree | Anna Maria Bigatti | 04 Sep 2014 14:05 | CoCoA-4 function to be added | 10 | 4.0 |
| 454 | Normal | interpolate | John Abbott | 04 Apr 2014 16:24 | CoCoA-4 function to be added | 0 | |
| 487 | Normal | ScalarProduct accepts MatrixRow? | | 18 Jun 2019 15:22 | CoCoA-4 function to be added | 0 | |
| 501 | Normal | Toric: resurrect function TestSet (and find better name for it?) | Anna Maria Bigatti | 09 Apr 2014 15:53 | CoCoA-4 function to be added | 0 | |
| 512 | Normal | Resurrect MakeCheck() | Anna Maria Bigatti | 28 Jul 2014 16:20 | CoCoA-4 function to be added | 0 | 1.0 |
| 702 | Normal | Add more operations for modules | Anna Maria Bigatti | 15 May 2015 09:05 | CoCoA-4 function to be added | 0 | 5.0 |
| 960 | Normal | New function: IdealAndSeparatorsOfPoints | | 02 Nov 2016 18:06 | CoCoA-4 function to be added | 0 | |
| 171 | High | Negate LIST, MAT,... | | 04 Apr 2014 16:27 | CoCoA-4 function to be added | 0 | 5.0 |
| 388 | High | port optimized resolutions to CoCoA-5 | Anna Maria Bigatti | 02 Jul 2014 16:13 | CoCoA-4 function to be added | 0 | |

CoCoA-5 function: new (17)

26 Apr 2024

| # | Priority | Subject | Assignee | Updated | Category | % Done | Estimated time |
|------|----------|---|--------------------|-------------------|-----------------------|--------|----------------|
| 737 | Low | Elementary transcendental functions (sin, cos, tan, log, exp) | | 20 Mar 2017 09:00 | CoCoA-5 function: new | 50 | |
| 504 | Normal | New operators: += -= *= /= | John Abbott | 25 Oct 2019 11:55 | CoCoA-5 function: new | 20 | |
| 980 | Normal | CoeffSize: function to measure the size of coeffs in a poly | | 28 Nov 2023 22:29 | CoCoA-5 function: new | 20 | 3.0 |
| 1107 | Normal | CoCoA Online: install (using InteractiveShell) | Anna Maria Bigatti | 16 Oct 2017 16:54 | CoCoA-5 function: new | 10 | |
| 274 | Normal | InputForm for output readable as input | Anna Maria Bigatti | 04 Apr 2014 16:43 | CoCoA-5 function: new | 10 | 4.0 |
| 451 | Normal | Port function NewSymbol/NewSymbols to CoCoA-5 | | 09 Nov 2015 15:29 | CoCoA-5 function: new | 10 | |
| 731 | Normal | Primary Decomposition in CoCoA-5 | | 02 Oct 2017 13:30 | CoCoA-5 function: new | 10 | |
| 1305 | Normal | Create a directory | | 02 Sep 2019 16:31 | CoCoA-5 function: new | 10 | |
| 235 | Normal | Add LucasTest to cocoa5? | | 04 Apr 2014 16:38 | CoCoA-5 function: new | 0 | |
| 483 | Normal | Unique copies of rings in CoCoA-5 | | 04 Apr 2014 16:42 | CoCoA-5 function: new | 0 | |
| 492 | Normal | New C5 fn for adjusting the warning level | | 22 Jul 2014 12:38 | CoCoA-5 function: new | 0 | |
| 626 | Normal | Output Betti numbers | | 17 Sep 2014 13:11 | CoCoA-5 function: new | 0 | |
| 753 | Normal | New function: LeastDegPolynomial (LDP) | | 30 Jul 2015 17:29 | CoCoA-5 function: new | 0 | |
| 964 | Normal | New function: MakeMultiset? | Anna Maria Bigatti | 25 Jul 2018 15:35 | CoCoA-5 function: new | 0 | 2.0 |
| 1153 | Normal | New function: gin for algebraic extensions | Anna Maria Bigatti | 25 Jul 2018 15:36 | CoCoA-5 function: new | 0 | |
| 993 | Normal | New function: RingQQi()? extension of QQ with imaginary unit | | 13 Nov 2017 15:05 | CoCoA-5 function: new | 0 | |
| 1285 | Normal | New Fn: make a homogeneous list of ringelem | | 23 May 2019 11:53 | CoCoA-5 function: new | 0 | |

EmacsUI (10)

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|------|--------|---|--------------------|-------------------|---------|----|-----|
| 772 | Low | Emacs UI: send-region and send-line make sense inside a cpkg5 file? | | 08 Sep 2015 12:49 | EmacsUI | 20 | |
| 424 | Low | Emacs UI: Name of emacs init file | Anna Maria Bigatti | 22 Jul 2014 11:21 | EmacsUI | 10 | 7.0 |
| 468 | Low | Emacs UI: indentation is wrong after ?keyword | | 17 Apr 2014 18:47 | EmacsUI | 0 | |
| 653 | Low | Emacs UI: use "warning colour" for an unmatched */ | | 04 Dec 2014 15:39 | EmacsUI | 0 | |
| 660 | Low | Emacs UI: endfunc does not indent the line | | 04 Mar 2020 22:06 | EmacsUI | 0 | |
| 663 | Low | Emacs UI: C-c C-\ copies line cursor is on | | 04 Feb 2015 13:19 | EmacsUI | 0 | |
| 671 | Low | Emacs UI: swapped splitting | Anna Maria Bigatti | 09 Mar 2015 13:49 | EmacsUI | 0 | |
| 1076 | Low | EmacsUI: interrupt copies line cursor is on to bottom then interrupts | | 12 Jun 2017 18:27 | EmacsUI | 0 | |
| 148 | Normal | C-c C-p in emacs goes to wrong line | | 06 Oct 2022 20:15 | EmacsUI | 20 | |
| 434 | Normal | Emacs UI: very slow when input file is big (with long lines) | | 09 Apr 2014 15:52 | EmacsUI | 0 | |

enhancing/improving (28)

| # | Priority | Subject | Assignee | Updated | Category | % Done | Estimated time |
|------|----------|--|--------------------|-------------------|---------------------|--------|----------------|
| 1722 | Low | Daft slug | | 27 Feb 2023 12:57 | enhancing/improving | 20 | |
| 657 | Low | use command, ring syntax, RingOf | | 20 Jan 2015 20:32 | enhancing/improving | 0 | |
| 659 | Low | Ring ID: separate index values for "system created rings"? | | 23 Jan 2015 14:11 | enhancing/improving | 0 | |
| 857 | Low | floor, ceil, and NearestInt for RingElem in CoCoA-5? | | 21 Feb 2019 09:17 | enhancing/improving | 0 | |
| 1034 | Low | Improve error message when args to (infix operator) lsln have incompatible types | | 17 Mar 2017 13:19 | enhancing/improving | 0 | |
| 1275 | Low | incr and decr are slow | | 29 Apr 2019 17:53 | enhancing/improving | 0 | |
| 1291 | Low | LinearSimplify: sometimes not optimal | | 27 May 2019 21:17 | enhancing/improving | 0 | |
| 875 | Normal | Interpreter is too slow reading a big polynomial | | 20 Oct 2020 18:05 | enhancing/improving | 10 | |
| 1003 | Normal | New syntax for creating poly rings? | | 27 Jan 2017 15:54 | enhancing/improving | 10 | |
| 1025 | Normal | Example of slow LEX GBasis computation | | 15 Nov 2017 14:57 | enhancing/improving | 10 | |
| 1068 | Normal | PolyRing constructor: NewOrdvArith computed twice | | 21 Mar 2024 11:55 | enhancing/improving | 10 | |
| 1129 | Normal | Generic Timeout for CoCoA-5? | | 28 Nov 2017 18:06 | enhancing/improving | 10 | |
| 1271 | Normal | Allow Interruption of printing? | | 17 Apr 2019 10:17 | enhancing/improving | 10 | |
| 1296 | Normal | Matrixrow-functions | | 18 Jun 2019 15:15 | enhancing/improving | 10 | |
| 600 | Normal | efficient subalgebras | Anna Maria Bigatti | 30 Jul 2014 17:29 | enhancing/improving | 0 | |
| 646 | Normal | Unique copies of free modules? | | 10 Nov 2014 16:42 | enhancing/improving | 0 | |
| 655 | Normal | MakeSet can be very slow | | 20 Jan 2015 17:12 | enhancing/improving | 0 | |
| 656 | Normal | eval: in which ring should the result be? | | 20 Jan 2015 20:25 | enhancing/improving | 0 | |
| 862 | Normal | append has bad complexity | | 05 Apr 2016 13:40 | enhancing/improving | 0 | |
| 876 | Normal | subst: allowed also for indets in the coeff ring | | 07 May 2016 13:59 | enhancing/improving | 0 | |
| 879 | Normal | LOGAR: make CoCoA-5 easier to use | | 09 May 2016 15:30 | enhancing/improving | 0 | |
| 888 | Normal | Escaped newline to allow a long line to be split into several "physical lines" | | 07 Jun 2016 00:26 | enhancing/improving | 0 | |
| 916 | Normal | use command: unhelpful error if you use := instead of ::= | | 20 Oct 2020 17:50 | enhancing/improving | 0 | |
| 917 | Normal | CallOnGroebnerFanIdeals: better to use an iterator (or a "stream") | | 26 Nov 2016 17:46 | enhancing/improving | 0 | |
| 941 | Normal | Improve coverage of CoCoA-5 tests | | 10 Oct 2016 21:09 | enhancing/improving | 0 | |
| 984 | Normal | GroebnerFanIdeals: order matrices sometimes have "large" entries | | 22 Nov 2021 20:19 | enhancing/improving | 0 | |
| 1138 | Normal | Latex: matrix | Anna Maria Bigatti | 11 Dec 2017 16:45 | enhancing/improving | 0 | |
| 1116 | Normal | Port RowMat, ColMat, MatByRows,... to CoCoA-5 | Anna Maria Bigatti | 01 Oct 2019 14:40 | enhancing/improving | 0 | 8.0 |

External Libs (2)

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|-----|--------|--|-------------|-------------------|---------------|----|--|
| 712 | Normal | External Libs: missing dependencies in Makefiles | John Abbott | 01 Oct 2019 14:31 | External Libs | 10 | |
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|---------------------------------|----------|---|--------------------|-------------------|----------------------|--------|----------------|
| 720 | Normal | External libs: specifying I/O streams (initialization?) | | 22 May 2015 14:14 | External Libs | 0 | |
| GUI (11) | | | | | | | |
| 612 | Low | The C5 gui does not exit properly when using the exit menu entry | John Abbott | 28 Feb 2024 21:20 | GUI | 100 | 0.61 |
| 1713 | Low | Windows: Qt-Gui does not link correctly | Nico Mexis | 25 Feb 2024 20:42 | GUI | 50 | |
| 1093 | Low | GUI: bugs and slugs | John Abbott | 18 Aug 2022 15:36 | GUI | 10 | |
| 299 | Low | GUI: message "running.." (close to output window?) | | 15 May 2020 10:56 | GUI | 0 | |
| 611 | Low | GUI: quitting provokes Imminent Disaster | | 28 Feb 2024 21:24 | GUI | 0 | |
| 38 | Normal | GUI: open file "with C5" | | 09 Apr 2014 15:00 | GUI | 0 | |
| 133 | Normal | Qt GUI: Make better distinction between input and output in the output window | | 12 Mar 2021 09:39 | GUI | 0 | 30.0 |
| 136 | Normal | GUI: Add an edit menu to the top bar (CoCoA GUI on MacOS) | | 02 Jul 2014 16:56 | GUI | 0 | |
| 198 | Normal | Appunti per (eventuale) tesi triennale Informatica: CoCoA GUI | | 30 Sep 2022 19:05 | GUI | 0 | 300.0 |
| 276 | Normal | TeXmacs interface | | 09 Apr 2014 15:01 | GUI | 0 | |
| 527 | Normal | GUI: better name for the graphical interface? | | 27 Jul 2015 19:25 | GUI | 0 | |
| Incomplete function (4) | | | | | | | |
| 920 | Normal | Empty matrix: warning, error, or empty matrix? | | 08 Sep 2016 11:45 | Incomplete function | 10 | |
| 106 | Normal | l:f (IDEAL and RINGELEM) -- operator colon | Anna Maria Bigatti | 02 Sep 2014 11:12 | Incomplete function | 10 | 3.0 |
| 96 | Normal | sort is too slow | John Abbott | 28 May 2021 20:40 | Incomplete function | 0 | 15.0 |
| 100 | Normal | BringIn should map only the indets in its arg | | 26 Sep 2022 20:25 | Incomplete function | 0 | 15.0 |
| Manual/documentation (9) | | | | | | | |
| 296 | Normal | Documentation for Parser/Interpreter | Anna Maria Bigatti | 09 Apr 2014 17:22 | Manual/documentation | 10 | |
| 943 | Normal | Managing credits | | 16 May 2017 14:49 | Manual/documentation | 10 | |
| 1314 | Normal | Emacs UI: open manual pages in a separate frame? | | 27 Sep 2019 17:23 | Manual/documentation | 10 | |
| 13 | Normal | (short) manual for emacs interface | | 12 Oct 2016 16:56 | Manual/documentation | 0 | |
| 323 | Normal | system variables | | 04 Apr 2014 17:06 | Manual/documentation | 0 | |
| 677 | Normal | Credits to CoCoA-5 contributors | | 15 Nov 2019 15:28 | Manual/documentation | 0 | |
| 1031 | Normal | ScalarProduct: exact defn and manual page | | 17 Mar 2017 11:03 | Manual/documentation | 0 | |
| 1054 | Normal | CoCoAManual: improved search, or improved selection of "see also" pages | | 28 Apr 2017 11:42 | Manual/documentation | 0 | |
| 1707 | Normal | User forum? | | 01 Nov 2022 22:02 | Manual/documentation | 0 | |
| Parser/Interpreter (16) | | | | | | | |

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|------------------------|----------|---|--------------------|-------------------|--------------------|--------|----------------|
| 183 | Low | Template for unaryMinus? | | 25 Jul 2018 17:15 | Parser/Interpreter | 0 | |
| 669 | Low | NUL char in input terminates CoCoA-5 | | 04 Mar 2020 21:28 | Parser/Interpreter | 0 | |
| 915 | Low | When is a semicolon needed to end a statement/command? | | 28 Feb 2024 21:27 | Parser/Interpreter | 0 | |
| 928 | Low | ciao, exit, quit can be used not only at top level | | 18 Oct 2021 11:08 | Parser/Interpreter | 0 | |
| 35 | Normal | Optional warnings for fn-proc arity | John Abbott | 07 Oct 2022 10:56 | Parser/Interpreter | 100 | 0.75 |
| 290 | Normal | Which functions are defined in CoCoALibSupplement? | Anna Maria Bigatti | 29 Mar 2019 19:23 | Parser/Interpreter | 20 | 2.0 |
| 287 | Normal | --fullCoCoALibError prints too much (Try/UponError) | Anna Maria Bigatti | 02 Sep 2016 13:54 | Parser/Interpreter | 10 | 35.0 |
| 95 | Normal | Error/warning if fn-proc is neither fn nor proc? | | 15 Jun 2016 14:13 | Parser/Interpreter | 0 | |
| 101 | Normal | rethrow in Try .. UponError .. EndTry | | 23 Oct 2020 10:18 | Parser/Interpreter | 0 | |
| 363 | Normal | Colon operator, 2nd arg | | 09 Apr 2014 15:07 | Parser/Interpreter | 0 | |
| 375 | Normal | allow single function call in "use" : e.g. "Use NewFractionField(R);" | | 02 Sep 2014 11:14 | Parser/Interpreter | 0 | |
| 435 | Normal | Assignment to protected variable | | 04 Apr 2014 17:05 | Parser/Interpreter | 0 | |
| 486 | Normal | Warning about variable hiding another -- too zealous | | 01 Sep 2014 13:55 | Parser/Interpreter | 0 | 20.0 |
| 597 | Normal | Interpreter.C: remove calls to WrongTypeException | | 02 Mar 2020 21:45 | Parser/Interpreter | 0 | |
| 749 | Normal | IsDefined does not follow reference to undefined optional param | | 31 Jul 2015 12:08 | Parser/Interpreter | 0 | |
| 1234 | Normal | CoCoA should read unicode | | 01 Oct 2019 14:36 | Parser/Interpreter | 0 | |
| Portability (2) | | | | | | | |
| 629 | Normal | Windows-GUI: compilation with MinGW | Anna Maria Bigatti | 19 Mar 2024 22:21 | Portability | 20 | 10.0 |
| 1006 | Normal | External dependencies for building | | 27 Oct 2021 13:13 | Portability | 10 | |