

## CoCoA-5 - CoCoA-5 Closed Issues

#	Subject	Target version	Assignee	Updated	Estimated time
<b>bug (38)</b>					
1424	'UNCAUGHT UNKNOWN EXCEPTION' when aborting 'isin' computation	CoCoA-5.3.0	John Abbott	26 Feb 2020 16:24	2.9
1438	ABORT for unterminated string literal	CoCoA-5.3.0	John Abbott	09 Mar 2020 15:28	1.66
1261	ASCII function	CoCoA-5.3.0	John Abbott	10 Oct 2019 19:30	0.55
1239	CartesianProductList: case of just 1 entry in list	CoCoA-5.3.0	Anna Maria Bigatti	04 Mar 2019 12:30	0.99
1420	IdealOfProjectivePoints and MinGens: problem with CoCoA_ASSERT	CoCoA-5.3.0	Anna Maria Bigatti	26 Feb 2020 16:59	1.5
1288	len for RINGELEM ??	CoCoA-5.3.0	John Abbott	13 Feb 2020 16:07	1.01
1273	NewPolyRing and SymbolRange together make a crash	CoCoA-5.3.0	John Abbott	13 Feb 2020 09:26	1.99
1383	NewPolyRing on MS Windows	CoCoA-5.3.0	John Abbott	13 Feb 2020 09:30	0.99
1321	RealRoots fails on $-x^2$	CoCoA-5.3.0	John Abbott	01 Oct 2019 14:11	0.67
1322	SEGV when debugging is active	CoCoA-5.3.0	John Abbott	27 Sep 2019 17:14	1.11
1421	SEGV: error("")	CoCoA-5.3.0	John Abbott	26 Feb 2020 16:27	0.99
1382	SEGV: should have been harmless	CoCoA-5.3.0	John Abbott	09 Jan 2020 11:21	1.01
1274	SortBy and SortedBy sometimes give wrong result	CoCoA-5.3.0	John Abbott	11 Oct 2019 22:02	1.55
1286	Website: trouble with the world map	CoCoA-5.3.0	Anna Maria Bigatti	14 Feb 2020 17:10	1.44
1140	ImplicitModular: too many bad primes	CoCoA-5.2.2	Anna Maria Bigatti	16 Jan 2018 15:45	1.01
1191	ApproxSolve: log(0) on some examples	CoCoA-5.2.4	John Abbott	26 Jul 2018 13:59	0.77
1190	HilbertBasisKer: SEGV (again)	CoCoA-5.2.4	Anna Maria Bigatti	30 Jul 2018 14:15	3.51
1189	HilbertBasisKer: unhelpful error with some inputs	CoCoA-5.2.4	Anna Maria Bigatti	30 Jul 2018 14:17	2.51
1172	MinSubsetOfGens: problem with generators = 0	CoCoA-5.2.4	Anna Maria Bigatti	30 Jul 2018 14:23	
1595	Bad input causes crash	CoCoA-5.4.0	John Abbott	21 Jun 2021 15:44	2.5
1531	CRASH: arithmetic with HilbertSeries (tagged object)	CoCoA-5.4.0	John Abbott	24 Sep 2021 22:16	0.99
1397	Crashes if CoCoAHelp.xml is missing	CoCoA-5.4.0	Anna Maria Bigatti	12 Nov 2021 10:23	
1610	IsInRadical: some more little bugs	CoCoA-5.4.0	Anna Maria Bigatti	12 Nov 2021 09:48	
1567	Radical in non-zero char	CoCoA-5.4.0	John Abbott	19 Mar 2021 12:52	0.95
1577	radical: lex order, ERROR: Ring is not standard graded	CoCoA-5.4.0	Anna Maria Bigatti	19 Mar 2021 12:39	
1215	RationalSolve: gives "Error: must be non-zero"	CoCoA-5.4.0	John Abbott	24 Sep 2021 22:35	0.49
1216	RationalSolve: gives wrong answer	CoCoA-5.4.0	John Abbott	24 Sep 2021 21:50	5.55
1509	RingElems with empty input	CoCoA-5.4.0	Anna Maria Bigatti	08 Jan 2021 11:35	3.01
1651	SEGV subsets ??	CoCoA-5.4.0	John Abbott	03 Feb 2022 19:03	0.99
1614	SourceRegion gives misleading error mesg	CoCoA-5.4.0	John Abbott	10 Nov 2021 18:04	1.66

#	Subject	Target version	Assignee	Updated	Estimated time
1407	Tagged values (Hilbert Series)	CoCoA-5.4.0	Anna Maria Bigatti	18 Feb 2022 16:22	1.51
1717	CRASH: equality test to a FUNCTION	CoCoA-5.4.2	John Abbott	14 Dec 2022 16:23	1.11
1734	Fix call to HilbertPoly in test/TutHokkaido5	CoCoA-5.4.2	Anna Maria Bigatti	12 Apr 2023 14:44	1.0
1714	IsDivisible error (in QuotRing)	CoCoA-5.4.2	John Abbott	14 Dec 2022 16:44	1.99
1640	MinSubsetOfGens does not find min subset	CoCoA-5.4.2	Anna Maria Bigatti	21 Jan 2022 10:10	1.66
1745	Printing of Hilbert series via indent	CoCoA-5.4.2	John Abbott	22 Dec 2023 20:10	1.67
1171	RealRoots: first point is sometimes wrong?	CoCoA-5.4.2	John Abbott	14 Mar 2023 22:01	6.25
1709	Test tut-CoCoLA2	CoCoA-5.4.2	Anna Maria Bigatti	19 Apr 2024 17:10	1.01
<b>Cleaning (28)</b>					
1318	Clean CoCoA-5/tests directory	CoCoA-5.3.0	Anna Maria Bigatti	26 Feb 2020 16:31	1.49
1344	Clean out OBSOLESCEMENT	CoCoA-5.3.0	Anna Maria Bigatti	14 Feb 2020 09:08	
1217	CoCoA-5 tests directory: cleaning	CoCoA-5.3.0		01 Oct 2019 14:19	
1442	CoCoAInterpreter: executable size	CoCoA-5.3.0	John Abbott	12 Mar 2020 22:17	1.23
1224	Lexer: unclosed multi-line comment	CoCoA-5.3.0	John Abbott	04 Mar 2020 14:41	0.75
1220	NewRingFp obsolescent; superseded by NewZZmod	CoCoA-5.3.0	John Abbott	01 Oct 2019 14:41	1.0
1385	valgrind: reports 456byte leak	CoCoA-5.3.0	John Abbott	13 Feb 2020 16:09	0.66
271	test lecture-HF4	CoCoA-5.0.3	Anna Maria Bigatti	24 Oct 2012 14:51	
444	Not keyword/operator	CoCoA-5.0.9	John Abbott	02 Apr 2014 18:35	3.5
475	Eliminate package approx	CoCoA-5.1.0 Easter14	John Abbott	07 May 2014 17:32	5.0
18	Printing matrices: I/O unified style for CoCoA-5?	CoCoA-5.1.0 Easter14	John Abbott	07 May 2014 14:10	7.5
472	Record keyword	CoCoA-5.1.0 Easter14	John Abbott	14 Apr 2014 09:16	1.0
534	Remove float.cpkg5	CoCoA-5.1.0 Easter14	John Abbott	24 Apr 2014 19:09	5.0
525	BuiltInFunctions: evalArgAsT1OrT2, evalArgAsT1OrT2OrT3, ... last argument	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	27 Aug 2014 18:09	2.5
493	Cleanup Hilbert package hp.cpkg5	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	31 Jul 2014 15:06	2.0
546	ideal wants LIST of RINGELEM	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	02 Sep 2014 11:08	0.9
518	incr/decr functions: to be used in packages	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	15 Sep 2014 18:27	1.5
490	Duplicate fns: valuation and FactorMultiplicity	CoCoA-5.1.2 summer 2015	John Abbott	30 Jul 2015 17:15	3.9
1092	Design issues for discussion in July 2017	CoCoA-5.2.2		11 Dec 2017 19:21	
1128	HomomorphismFns.cpkg5 no longer needed?	CoCoA-5.2.2	Anna Maria Bigatti	16 Jan 2018 15:28	0.33
1127	subalgebra package obsolete?	CoCoA-5.2.2	Anna Maria Bigatti	16 Jan 2018 15:59	2.01
250	CoCoALib BuildInfo vs CoCoA-5 VersionInfo	CoCoA-5.4.0	Anna Maria Bigatti	14 May 2021 17:48	0.25
1506	Remove XMLFileName from Main.C	CoCoA-5.4.0	John Abbott	16 Sep 2021 12:36	

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1520	Replace BOOST_FOREACH by new C++14 range for syntax	CoCoA-5.4.0	John Abbott	29 Jan 2021 12:05	1.44
1396	Website: download page for CoCoA-4 burns CPU	CoCoA-5.4.0	Anna Maria Bigatti	04 Mar 2021 17:15	
1398	Website: hide/delete all the CoCoA-4 stuff?	CoCoA-5.4.0	Anna Maria Bigatti	12 Nov 2021 11:14	0.44
1697	Specifying BOOST in configure	CoCoA-5.4.2	John Abbott	14 Dec 2022 22:33	4.49
1696	Which BOOST libs are actually needed?	CoCoA-5.4.2	John Abbott	09 Mar 2023 22:41	2.49
<b>CoCoA-4 function to be added (32)</b>					
1236	Add "socket" devices	CoCoA-5.3.0	John Abbott	19 Feb 2020 11:43	9.9
1401	Parolacce e basi border	CoCoA-5.3.0	John Abbott	13 Feb 2020 17:22	
1231	system command	CoCoA-5.3.0	John Abbott	27 Sep 2019 17:25	
80	"<=" for ideals	CoCoA-5.0.2	Anna Maria Bigatti	23 Jan 2012 14:31	1.0
12	Add "syntax" to online manual	CoCoA-5.0.2	Anna Maria Bigatti	09 Nov 2011 11:32	3.5
77	Porting package "primary.cpkg" to cocoa-5	CoCoA-5.0.2	Anna Maria Bigatti	19 Jan 2012 11:38	12.0
19	How to get the version number of CoCoA-5?	CoCoA-5.0.3	Anna Maria Bigatti	14 Nov 2012 11:34	
212	NBM: add to CoCoA-5	CoCoA-5.0.3	Anna Maria Bigatti	24 Feb 2014 18:07	
110	Surprise return type for GCD of a list of ints	CoCoA-5.0.3	John Abbott	09 Nov 2015 15:32	15.0
365	add function to compute minimal generators (like Minimalize)	CoCoA-5.0.9	Anna Maria Bigatti	15 May 2015 11:19	4.2505
32	Elim(t, I)	CoCoA-5.0.9	Anna Maria Bigatti	02 Apr 2014 17:18	1.0
93	Hilbert series: global output rings for non-standard gradings	CoCoA-5.0.9	Anna Maria Bigatti	23 Jul 2013 18:13	5.0
237	port homog/homogenized for ideal to cocoa-5	CoCoA-5.0.9	Anna Maria Bigatti	01 Aug 2013 07:23	
371	Resurrect LinearSimplify	CoCoA-5.0.9	John Abbott	07 Mar 2014 15:25	
200	add modules and module operations	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	15 May 2015 09:02	27.0
529	Naive version of resolution and Betti numbers	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	09 May 2014 12:56	5.0
132	BringIn should allow reduction modulo p	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	04 Sep 2014 12:05	2.0
484	Evaluate in other ring (was called :: in CoCoA-4)	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	11 Sep 2014 17:43	1.51
596	function "packages"	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	24 Jul 2014 09:56	1.5
603	Resume CheckArgTypes	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	05 Sep 2014 11:28	1.0
588	Resume code for "gin" (generic initial ideal)	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	15 Sep 2014 18:28	2.0
615	Resume MayerVietorisTreeN1	CoCoA-5.1.1 Seoul14	Winfried Bruns	05 Sep 2014 11:28	
330	Syzygy for modules: homogeneous module	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	28 Jul 2014 16:35	2.0
332	Approx pts preprocessing fns	CoCoA-5.1.2 summer 2015	John Abbott	29 Jul 2015 21:41	2.77
485	Initialization for CoCoA-5: file init.cocoa5	CoCoA-5.1.2 summer 2015	John Abbott	30 Jun 2015 11:34	5.0
590	package for subalgebras	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	26 Jun 2015 16:58	2.01

#	Subject	Target version	Assignee	Updated	Estimated time
732	Primary Decomposition in CoCoA-5: port Luis Garcia's package(cocoa-4)	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	30 Jun 2015 15:20	5.0
359	RingOf for list	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	30 Jun 2015 15:10	2.0
1067	"Randomize" and "Randomized" obsolete?	CoCoA-5.2.2	John Abbott	15 Nov 2017 17:02	1.55
1011	Random seed fn	CoCoA-5.2.2	John Abbott	15 Nov 2017 17:43	
606	Evaluate in ring operator (was called :: in CoCoA-4)	CoCoA-5.4.0	Anna Maria Bigatti	16 Feb 2022 20:02	1.0
1536	Implement xel?	CoCoA-5.4.0	John Abbott	24 Sep 2021 22:37	1.49
<b>CoCoA-4 function: obsolete (5)</b>					
336	Mat(Module) should give error	CoCoA-5.0.3	Anna Maria Bigatti	06 Jul 2015 07:43	1.0
532	New package: OBSOLESCE	CoCoA-5.1.0 Easter14	John Abbott	02 Jul 2014 16:54	
25	Function "Call"	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	05 Sep 2014 11:31	2.5
99	Function "insert": obsolescent	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	27 Aug 2014 18:17	2.0
1123	Should "minimalize" be obsolescent?	CoCoA-5.2.2	Anna Maria Bigatti	11 Dec 2017 18:01	5.01
<b>CoCoA-5 function: new (58)</b>					
927	Add "exit" in addition to "ciao"	CoCoA-5.2.0 spring 2017	John Abbott	01 Mar 2017 14:15	1.56
903	New function CallOnGroebnerFanIdeals: call function on GFan ideals	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	26 Apr 2017 19:04	4.0
996	New function: IdealOfGBasis	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	29 Apr 2017 08:34	2.01
1043	New function: IsCoprime	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	28 Apr 2017 19:21	1.0
965	New function: multigraded BettiNumbers	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	10 Apr 2017 17:39	4.01
1044	New function: SectionalMatrix, PrintSectionalMatrix	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	10 Apr 2017 17:55	2.01
1017	New function: SetGBasisAsGens [--> NO: use IdealOfGBasis]	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	10 Apr 2017 17:43	0.51
954	New function: StdBasis (standard basis)	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	01 Mar 2017 14:11	6.01
959	New function: SymmetricPolys	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	01 Mar 2017 14:10	2.0
845	Primary Decomposition in CoCoA-5.1.6: zero dimensional, finite characteristic	CoCoA-5.2.0 spring 2017	Elisa Palezzato	10 Apr 2017 16:47	20.1
734	Primary Decomposition in CoCoA-5: zero dimensional, zero characteristic	CoCoA-5.2.0 spring 2017	Elisa Palezzato	07 Apr 2017 10:13	40.01
1374	Add function power to CoCoA-5	CoCoA-5.3.0	Anna Maria Bigatti	13 Feb 2020 16:30	1.33
1289	assert-function for cocoa5	CoCoA-5.3.0	John Abbott	26 Feb 2020 16:32	1.23
1316	Matrix row reduction (rref)	CoCoA-5.3.0	John Abbott	19 Feb 2020 11:31	2.88
1439	New function: LinearForm	CoCoA-5.3.0	Anna Maria Bigatti	20 Mar 2020 12:55	5.2
1243	New function: Read a string into a list (of RingElem) -- CoCoA-5	CoCoA-5.3.0	Anna Maria Bigatti	28 Feb 2020 17:52	5.0
1247	sleep function	CoCoA-5.3.0	John Abbott	04 Mar 2019 18:00	1.99
309	(Multi)BlockMatrix	CoCoA-5.0.3	Anna Maria Bigatti	31 May 2013 14:41	
347	C5 cannot compute derivative of a ratfn	CoCoA-5.0.3	John Abbott	19 Feb 2014 21:34	

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131	Conversion from bool to INT	CoCoA-5.0.3	John Abbott	04 Jul 2012 09:59	
184	MAT/INT ? MAT/RINGELEM ?	CoCoA-5.0.3	John Abbott	04 Jul 2012 09:58	
158	May AsRAT produce an INT?	CoCoA-5.0.3	John Abbott	08 Jun 2012 17:26	2.75
8	source region	CoCoA-5.0.3	John Abbott	21 May 2013 17:12	
380	Add Frobbly functions to cocoa-5	CoCoA-5.0.9	Anna Maria Bigatti	24 Feb 2014 18:15	
372	add IsFactorClosed	CoCoA-5.0.9	John Abbott	21 Mar 2014 11:35	
331	Is it possible to have R <sup>3</sup> for NewFreeModule(R,3)?	CoCoA-5.0.9	Anna Maria Bigatti	15 Mar 2013 17:01	
90	Make the new fn CoefficientsWRT available in C5	CoCoA-5.0.9	Anna Maria Bigatti	28 Nov 2012 11:31	7.6
328	Swap	CoCoA-5.0.9	John Abbott	25 Mar 2014 15:11	
301	How to obtain an integer from a finite field element? AsINT?	CoCoA-5.1.0 Easter14	John Abbott	24 Apr 2014 20:16	2.0
414	New fn to increase max recursion depth	CoCoA-5.1.0 Easter14	John Abbott	02 May 2014 17:05	8.0
502	New fn/object type: timer	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	02 May 2014 16:49	3.0
362	New function: IsZeroDivisor	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	14 Apr 2014 09:14	2.0
173	Anonymous symbols: should they be available in CoCoA-5?	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	02 Sep 2014 11:20	6.0
20	How to get the compilation flags of CoCoA-5?	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	28 Jul 2014 17:44	
204	NmzComputation: the powerful NormalizComputation function in CoCoA-5	CoCoA-5.1.1 Seoul14	Christof Soeger	11 Sep 2014 17:39	
273	Package for Polynomial Algebra Homomorphisms	CoCoA-5.1.1 Seoul14	Giulia Bianco	29 Jul 2014 09:31	50.0
553	Port function MantissaAndExponent2	CoCoA-5.1.1 Seoul14	John Abbott	03 Sep 2014 12:36	4.0
622	New function: RandomSubset	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	30 Jun 2015 14:19	6.01
733	Primary Decomposition in CoCoA-5.1.2: zero dimensional, finite characteristic	CoCoA-5.1.2 summer 2015	Elisa Palezzato	06 Aug 2015 10:59	15.0
761	Evaluating a QuasiPol	CoCoA-5.1.3/4 Jan 2016	John Abbott	17 Feb 2016 11:26	2.0
844	IsMaximal, IsPrimary for IDEAL (in cocoa language)	CoCoA-5.1.3/4 Jan 2016	Anna Maria Bigatti	16 Feb 2016 17:43	2.0
771	New fns: MaxBy and MinBy to find minimum/maximum of a list wrt a given order	CoCoA-5.1.3/4 Jan 2016	John Abbott	17 Feb 2016 12:40	
760	Primary Decomposition in CoCoA-5.1.3: zero dimensional, finite characteristic	CoCoA-5.1.3/4 Jan 2016	Elisa Palezzato	17 Feb 2016 10:55	
700	Which external libs are present?	CoCoA-5.1.3/4 Jan 2016	Anna Maria Bigatti	18 Feb 2016 15:52	1.0
1091	ExternalLib-MathSAT: (first) prototype CoCoA-5 interface for MathSAT	CoCoA-5.2.2	Anna Maria Bigatti	11 Dec 2017 17:58	8.01
1084	New function: PrevPrime	CoCoA-5.2.2	John Abbott	13 Nov 2017 15:43	1.51
1142	NewZZmod: port to CoCoA-5	CoCoA-5.2.2	Anna Maria Bigatti	16 Jan 2018 15:30	2.01
978	CommonDenom: for polys and lists?	CoCoA-5.2.4	John Abbott	30 Jul 2018 14:28	1.01
1122	New fn: RandomLinearForm	CoCoA-5.2.4	Anna Maria Bigatti	30 Jul 2018 14:22	0.99
1202	New package: arrangements	CoCoA-5.2.4	Elisa Palezzato	06 Aug 2018 16:20	
1201	New package: poset	CoCoA-5.2.4	Elisa Palezzato	06 Aug 2018 16:20	
1272	Groebner Bases over ZZ	CoCoA-5.4.0	John Abbott	17 Feb 2022 21:22	14.99

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1546	Improve 'describe' or 'print' for a function	CoCoA-5.4.0	Anna Maria Bigatti	04 Mar 2021 17:27	2.89
1431	Juxtaposition of string literals	CoCoA-5.4.0	John Abbott	14 Sep 2021 11:45	1.99
1174	package of a function --> of an identifier!	CoCoA-5.4.0	Anna Maria Bigatti	29 Jan 2021 15:43	
1516	substring function	CoCoA-5.4.0	John Abbott	29 Jan 2021 12:03	0.99
1724	New function: AdjacentMinors	CoCoA-5.4.2	Anna Maria Bigatti	14 Mar 2023 11:53	
1112	New function: IsEmpty	CoCoA-5.4.2	Anna Maria Bigatti	22 Dec 2023 19:21	2.0
<b>EmacsUI (43)</b>					
1002	Emacs UI: cocoa5-send-line skips too many chars	CoCoA-5.2.0 spring 2017	John Abbott	27 Apr 2017 11:31	2.6
748	Emacs UI: return inside a block of output sends several lines (not just the one I'm on)	CoCoA-5.2.0 spring 2017	John Abbott	28 Apr 2017 09:12	3.01
998	Emacs UI: sending empty input from cocoa5 buffer	CoCoA-5.2.0 spring 2017	John Abbott	26 Apr 2017 17:19	3.1
1038	Emacs: sent interrupt to CoCoA	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	26 Apr 2017 17:20	4.01
945	Emacs UI: comint buffer silently truncates(?) long lines when sending	CoCoA-5.3.0	John Abbott	04 Mar 2020 19:01	0.7
1325	Emacs UI: emacs does not recognize "until" as marking the end of a "repeat" block	CoCoA-5.3.0	John Abbott	26 Oct 2019 09:53	1.51
1358	Emacs UI: should active input line be cleared before sending line from CoCoA-5 file?	CoCoA-5.3.0	John Abbott	13 Feb 2020 14:03	1.88
1364	Emacs UI: start cocoa5 with system command enabled	CoCoA-5.3.0	John Abbott	13 Feb 2020 16:37	1.66
672	Emacs UI: strange string literal causes crash	CoCoA-5.3.0	John Abbott	04 Mar 2020 15:31	4.8
781	Option to "fold" long lines?	CoCoA-5.3.0	John Abbott	04 Mar 2020 15:41	0.66
172	add customization for --fullCoCoALibError in EmacsUI	CoCoA-5.0.3	Anna Maria Bigatti	01 Jun 2012 17:36	1.0
280	EmacsUI: indentation is wrong with parentheses	CoCoA-5.0.3	John Abbott	21 May 2013 17:34	
128	wordlist.txt generation	CoCoA-5.0.3	Anna Maria Bigatti	07 Jun 2012 18:31	3.0
423	Emacs UI: semicolon does not work in emacs-24.3	CoCoA-5.0.9	Anna Maria Bigatti	02 Apr 2014 18:34	1.0
445	EmacsUI: indentation is wrong sometimes (e.g. if Lambda1 is on previous line)	CoCoA-5.0.9	John Abbott	02 Apr 2014 18:35	1.5
441	Emacs UI: C-c C-e does not ignore keywords inside strings	CoCoA-5.1.0 Easter14	John Abbott	02 May 2014 17:21	5.0
470	Emacs UI: cocoa5-close-block should beep when there is no block to close	CoCoA-5.1.0 Easter14	John Abbott	15 Apr 2014 15:21	3.0
494	Emacs UI: installation on Mac OS 10.8.5	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	09 May 2014 13:20	
462	Emacs UI: semicolon problems	CoCoA-5.1.0 Easter14	John Abbott	02 May 2014 17:18	1.0
460	Emacs UI: updating abbrev-table	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	14 May 2014 16:30	
381	Emacs User Interface: Easier binding for sending a line to cocoa-5	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	07 May 2014 13:57	8.0
523	EmacsUI: lower case keywords	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	07 May 2014 14:05	3.0
607	Emacs UI; remove send-buffer?	CoCoA-5.1.1 Seoul14	John Abbott	02 Sep 2014 11:02	0.5
608	Emacs UI: C-return for send-line and send-region	CoCoA-5.1.1 Seoul14	John Abbott	03 Sep 2014 13:43	
567	Emacs UI: coloured syntax in output buffer has problems if error message shows a single double-quote	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	02 Jul 2014 16:11	1.0

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397	EMACS UI: fix windows splitting	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	02 Jul 2014 16:03	
464	Emacs UI: split horizontally instead of vertically?	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	03 Sep 2014 13:40	10.0
433	EMACS UI: trouble with sending a long line	CoCoA-5.1.1 Seoul14	John Abbott	02 Sep 2014 11:10	4.4
561	Emacs UI: unrecognized keywords (ImportByValue...)	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	02 Sep 2014 11:21	2.0
164	CoCoA-5 emacs interface bug (minor): Source & SourceRegion with troublesome filenames	CoCoA-5.1.2 summer 2015	John Abbott	29 Jul 2015 21:37	1.0
699	Emacs UI: set back "cocoa5-executable" to "CoCoAInterpreter"?	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	18 May 2015 17:10	2.0
684	Emacs UI: wrong name after auto-inserting enddefine	CoCoA-5.1.2 summer 2015	John Abbott	20 Apr 2015 11:17	2.5
698	Emacs UI: problems with packages on windows	CoCoA-5.1.3/4 Jan 2016	Anna Maria Bigatti	16 Feb 2016 17:50	2.0
1109	Emacs UI can be slow in M\$ Windows	CoCoA-5.2.2	John Abbott	15 Nov 2017 17:05	0.66
1087	EmacsUI: get error "wrong-type-argument processp nil" when doing M-x cocoa5 when executable does not exist	CoCoA-5.2.2	John Abbott	13 Nov 2017 15:06	
1448	EmacsUI: sending line with "7" calls SourceRegion (!?!?)	CoCoA-5.3.2	John Abbott	30 Apr 2020 14:16	2.01
1554	cocoa5-emacs-dir or cocoa5-root-dir?	CoCoA-5.4.0	John Abbott	04 Mar 2021 17:10	1.23
1412	Emacs UI: font size	CoCoA-5.4.0	John Abbott	10 Nov 2021 18:17	3.55
1505	EmacsUI: fix "Go to Error C-c C-p"	CoCoA-5.4.0	Anna Maria Bigatti	14 Oct 2020 14:06	1.0
1526	EmacsUI: help/manual for selected string -- or just for word with cursor on?	CoCoA-5.4.0	John Abbott	07 Mar 2022 15:32	2.51
1537	EmacsUI: strange colours, sometimes	CoCoA-5.4.0	John Abbott	24 Sep 2021 22:32	1.79
1507	wordlist without OBSOLETE entries?	CoCoA-5.4.0	John Abbott	14 May 2021 17:49	0.88
1766	Emacs 29: Removal of obsolete entries	CoCoA-5.4.2	John Abbott	22 Dec 2023 11:35	

### enhancing/improving (78)

877	Easier syntax to make a PRINCIPAL ideal?	CoCoA-5.2.0 spring 2017	John Abbott	27 Apr 2017 14:57	0.77
708	ExternalLib Normaliz: verbose flag?	CoCoA-5.2.0 spring 2017	John Abbott	05 May 2017 10:36	3.01
870	GBasis of product of ideals is wrong (Vadim Tropashko) --> l.myReset()	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	26 Apr 2017 15:56	2.01
883	gin: return/print a suitable change of variables	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	26 Apr 2017 17:25	2.01
973	GroebnerFanIdeals: verbosity and output style	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	28 Apr 2017 15:14	5.5
744	Handle interrupts more helpfully	CoCoA-5.2.0 spring 2017	John Abbott	02 Mar 2017 16:15	2.0
995	LaTeX(x <sup>10</sup> ) should use curly brackets	CoCoA-5.2.0 spring 2017	John Abbott	01 Mar 2017 13:35	0.251
1047	NewPolyRing with user defined ordering is slower than CoCoALib	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	01 May 2017 10:43	5.31
1051	ReadExpr(P, string) and RingElem(P, string)	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	28 Apr 2017 19:06	3.0
909	ReadExpr: decimal point	CoCoA-5.2.0 spring 2017	John Abbott	27 Apr 2017 11:43	2.0
1028	Readline: cursor moves wrongly when at start of line with a prompt	CoCoA-5.2.0 spring 2017	John Abbott	27 Apr 2017 11:35	0.99
878	RingElem applied to a symbol (repr as a string)	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	27 Apr 2017 14:34	1.8
994	SEGV: Toric example from Kazuki Maeda	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	07 Apr 2017 09:48	6.01

#	Subject	Target version	Assignee	Updated	Estimated time
1284	CartesianProductList: too slow	CoCoA-5.3.0	John Abbott	22 Oct 2019 11:10	1.99
1012	Chebyshev polynomials	CoCoA-5.3.0	John Abbott	03 Apr 2019 17:08	0.44
1399	CoCoA-5 interpreter: idle/busy indicator	CoCoA-5.3.0	John Abbott	06 Mar 2020 12:24	7.3
1390	CoCoA-5 test: radical too slow	CoCoA-5.3.0	John Abbott	04 Mar 2020 16:22	2.11
1352	cocoa5 (launch) script: sleep time	CoCoA-5.3.0	John Abbott	13 Feb 2020 15:40	1.66
673	Error message: I was expecting...	CoCoA-5.3.0	John Abbott	13 Feb 2020 16:39	1.88
1327	Inconvenient PolyRingHom, PolyAlgebraHom	CoCoA-5.3.0	Anna Maria Bigatti	13 Feb 2020 09:35	
1410	IsDivisible also for INT	CoCoA-5.3.0	Anna Maria Bigatti	13 Feb 2020 15:40	2.01
1240	John's visit Feb 2019	CoCoA-5.3.0	John Abbott	01 Oct 2019 14:25	0.44
1384	NewPolyRing and SymbolRange	CoCoA-5.3.0	Anna Maria Bigatti	13 Feb 2020 09:29	
1290	NewPolyRing: allow symbols with just head and no indices?	CoCoA-5.3.0	John Abbott	15 Feb 2020 10:28	0.99
652	Flag to enable/disable printing of list of loaded packages	CoCoA-5.1.2 summer 2015	John Abbott	29 Jul 2015 16:24	6.01
719	Readline: consider creating a textual interpreter with readline	CoCoA-5.1.2 summer 2015	John Abbott	28 Jul 2015 15:56	5.0
634	Symbol in the coeff ring	CoCoA-5.1.2 summer 2015	John Abbott	22 Oct 2014 20:02	
726	TopLevel cannot "import" a package variable	CoCoA-5.1.2 summer 2015	John Abbott	27 Jul 2015 15:06	7.0
650	CoCoA-5 test (SourceAnna); problem in HilbertPoly	CoCoA-5.1.3/4 Jan 2016	Anna Maria Bigatti	23 Mar 2016 10:18	
751	description of a RING	CoCoA-5.1.3/4 Jan 2016	Anna Maria Bigatti	05 May 2017 16:07	6.01
767	Rename Log to exponents	CoCoA-5.1.3/4 Jan 2016	John Abbott	17 Feb 2016 13:02	
768	Rename LogToTerm to MakeTerm	CoCoA-5.1.3/4 Jan 2016	John Abbott	17 Feb 2016 13:05	0.9
940	Check all fns in packages work even without BackwardCompatible.cpkg5	CoCoA-5.2.2	John Abbott	04 Dec 2017 11:16	
1060	describe ring: add final newline	CoCoA-5.2.2	John Abbott	13 Nov 2017 15:59	0.44
670	Error column indicator misaligned with non-printing (unprintable) characters	CoCoA-5.2.2	John Abbott	13 Nov 2017 15:58	1.8
1032	IsInRadical: fragile code	CoCoA-5.2.2	John Abbott	15 Dec 2017 15:37	1.11
1137	Latex: ideal	CoCoA-5.2.2	Anna Maria Bigatti	12 Dec 2017 15:36	1.01
1100	PrimaryDecomposition0: says not 0-dim but IsZeroDim says ideal is zero-dim!	CoCoA-5.2.2	Anna Maria Bigatti	11 Dec 2017 17:53	1.01
1139	Radical problems	CoCoA-5.2.2	Anna Maria Bigatti	13 Dec 2017 13:23	1.51
1095	TimeOut not working as hoped/expected	CoCoA-5.2.2	John Abbott	13 Nov 2017 15:04	1.11
798	use poly ring with many variables is too slow	CoCoA-5.2.2	John Abbott	13 Dec 2017 14:28	
907	ApproxSolve very slow on this example	CoCoA-5.2.4	Anna Maria Bigatti	06 Aug 2018 16:22	7.7
1114	Some other examples for 0-dim radical	CoCoA-5.2.4	Anna Maria Bigatti	31 Jul 2018 12:03	1.01
275	Unhelpful error messages when SmallExponent_t is unsigned char.	CoCoA-5.2.4	John Abbott	17 Jan 2018 11:44	3.8
1348	cocoa5 script for releases	CoCoA-5.3.2	Anna Maria Bigatti	09 Oct 2020 15:48	4.99
1615	apply: remove for RingHom	CoCoA-5.4.0	John Abbott	04 Oct 2021 11:57	0.22



#	Subject	Target version	Assignee	Updated	Estimated time
1392	ApproxSolve: another slow example	CoCoA-5.4.0	Anna Maria Bigatti	24 Sep 2021 22:21	1.55
1461	Automatic mapping for multiplication?	CoCoA-5.4.0	Anna Maria Bigatti	27 Oct 2020 19:08	3.66
1493	Automatic ring mapping in assignment?	CoCoA-5.4.0	John Abbott	02 Apr 2021 08:54	
1287	Better err mesg for easy typo in ring definition	CoCoA-5.4.0	John Abbott	16 Sep 2021 12:38	
687	Builtin fn makes unnecessary copy of arg	CoCoA-5.4.0	John Abbott	28 May 2021 15:43	0.75
1514	Cocoa crashes when calling RingElems	CoCoA-5.4.0	John Abbott	03 Dec 2020 21:31	4.33
1599	ConcatStr	CoCoA-5.4.0	John Abbott	14 Sep 2021 11:53	1.11
636	Distinguish indets from symbols in coeffring in Use command	CoCoA-5.4.0	John Abbott	27 Oct 2020 17:59	0.66
1540	Double power	CoCoA-5.4.0	John Abbott	24 Sep 2021 21:45	2.49
1597	GetRow/GetRows are extraordinarily slow	CoCoA-5.4.0	Anna Maria Bigatti	14 Sep 2021 11:47	3.33
1527	Inadequate error message on incorrect list access	CoCoA-5.4.0	John Abbott	08 Jan 2021 11:19	2.33
1495	Package exporting nothing?	CoCoA-5.4.0	John Abbott	08 Jan 2021 11:51	3.51
1512	Package with unexpected EOF	CoCoA-5.4.0	John Abbott	08 Jan 2021 11:53	0.51
1270	RationalSolve: use MinPolyQuot instead of elim	CoCoA-5.4.0	John Abbott	16 Sep 2021 12:40	0.99
724	RationalSolve: wrongly complains about non zero-dim even in finite char	CoCoA-5.4.0	John Abbott	19 Mar 2021 12:43	1.44
1029	Readline: does not recognize interrupts	CoCoA-5.4.0	John Abbott	07 Mar 2022 16:58	2.02
674	Ring constructor: allow empty range for indices?	CoCoA-5.4.0	John Abbott	14 Oct 2020 14:43	1.21
1501	testing for syntax errors	CoCoA-5.4.0	John Abbott	05 Nov 2021 16:53	
1553	Timing SystemCommand	CoCoA-5.4.0	John Abbott	19 Mar 2021 13:09	
637	Undesirable consequence of automatic mapping of RingElems?	CoCoA-5.4.0	John Abbott	27 Oct 2020 18:15	1.81
1489	Unhelpful error message for package followed by identifier (without dollar sign)	CoCoA-5.4.0	John Abbott	14 Oct 2020 13:58	1.99
1530	VersionInfo -- better field names?	CoCoA-5.4.0	Anna Maria Bigatti	08 Jan 2021 11:24	2.22
1573	ApproxSolve: very imprecise	CoCoA-5.4.2	John Abbott	24 Sep 2021 22:26	3.99
635	Automatic mapping of RingElem (in operation with a compound value)	CoCoA-5.4.2	John Abbott	14 Mar 2023 14:59	
1698	indent: return a string?	CoCoA-5.4.2	Anna Maria Bigatti	15 Mar 2023 07:30	2.66
1075	LaTeX package: power-product printing	CoCoA-5.4.2	Anna Maria Bigatti	22 Dec 2023 19:30	3.65
823	NewPolyRing with weights -- better interface?	CoCoA-5.4.2	Anna Maria Bigatti	18 Mar 2024 21:39	2.01
1477	Packages: questions from Andraschko	CoCoA-5.4.2	John Abbott	14 Mar 2023 21:57	2.33
948	radical is slow (compared to singular) on these examples	CoCoA-5.4.2	Anna Maria Bigatti	22 Dec 2023 20:12	16.0
1629	RingElem slow with many indets	CoCoA-5.4.2	Anna Maria Bigatti	22 Dec 2023 20:06	6.33
1072	syz: apply to ModuleElem?	CoCoA-5.4.2	Anna Maria Bigatti	26 Mar 2024 17:12	1.01
1616	UnivariateIndetIndex: remove cocoa-5 implementation and use CoCoALib's	CoCoA-5.4.2	Anna Maria Bigatti	19 Nov 2021 15:32	0.77

## External Libs (6)

#	Subject	Target version	Assignee	Updated	Estimated time
711	External Libs: print credits?	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	28 Apr 2017 14:49	4.4
243	Normaliz tests for CoCoA5	CoCoA-5.2.0 spring 2017	Christof Soeger	12 Oct 2016 15:01	3.05
757	readline: fix script for finding libreadline	CoCoA-5.2.0 spring 2017	John Abbott	28 Apr 2017 09:13	4.01
1226	ExternalLibs return empty list	CoCoA-5.3.0	Anna Maria Bigatti	02 Oct 2019 16:22	
745	Readline: avoid printing out READLINE twice	CoCoA-5.1.2 summer 2015	John Abbott	29 Jul 2015 15:18	
713	External libs: interrupting not easy	CoCoA-5.4.0	John Abbott	24 Sep 2021 21:58	2.66
<b>GUI (12)</b>					
458	CoCoA5 GUI; failed build "wrong architecture"	CoCoA-5.3.0	John Abbott	02 Mar 2020 15:40	0.95
240	GUI compilation: GMP is not naturally thread-safe	CoCoA-5.3.0	John Abbott	11 Mar 2020 21:34	3.33
519	GUI: fix DEFINES in makefile	CoCoA-5.3.0	Anna Maria Bigatti	14 Feb 2020 09:22	1.5
197	./C5.bin: fork: Resource temporarily unavailable			05 Mar 2014 12:21	
88	Makefile problem with GUI on linux	CoCoA-5.0.2		02 Apr 2012 16:26	1.0
207	BuiltIn Normaliz functions not available in C5 gui	CoCoA-5.0.3	Anna Maria Bigatti	01 Aug 2012 15:09	
52	GUI: problem with "--" comment	CoCoA-5.0.3	John Abbott	04 Jul 2012 10:01	5.0
239	Normaliz functions not available in C5 GUI (again!)	CoCoA-5.1.0 Easter14	John Abbott	14 Apr 2014 09:15	8.0
741	C5 GUI: slow to close	CoCoA-5.2.2	John Abbott	13 Nov 2017 15:46	2.75
265	Linking problems in CoCoA-5 GUI	CoCoA-5.2.2	John Abbott	13 Nov 2017 15:49	0.33
750	C5 GUI: very slow when printing many short lines	CoCoA-5.4.2	John Abbott	07 Oct 2022 11:06	1.23
612	The C5 gui does not exit properly when using the exit menu entry	CoCoA-5.?.?	John Abbott	28 Feb 2024 21:20	0.61
<b>Incomplete function (34)</b>					
405	ReducedGBasis not memorized in an ideal	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	28 Apr 2017 09:14	2.01
880	subst should check that indet is in same ring as 1st arg, but does not.	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	01 Mar 2017 13:34	1.0
918	UniversalGBasis: sometimes gives error	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	12 Oct 2016 15:01	2.05
1230	PrimaryDecomposition with lex ordering	CoCoA-5.3.0	Anna Maria Bigatti	13 Feb 2020 10:09	1.23
267	Cyclotomic(106743) fails	CoCoA-5.0.3	John Abbott	21 May 2013 18:03	
166	Dim/Multiplicity with Lex ordering -- NYI	CoCoA-5.0.3	Anna Maria Bigatti	21 May 2013 18:07	
192	indent prints strings without quotes	CoCoA-5.0.3	Anna Maria Bigatti	14 Nov 2012 11:30	2.0
186	LCM(0,x)	CoCoA-5.0.3	John Abbott	04 Jul 2012 09:57	2.0
159	Multiplicity sometimes wrong	CoCoA-5.0.3	Anna Maria Bigatti	08 Jun 2012 17:29	3.5
98	RealRoots should use IsRational	CoCoA-5.0.3	John Abbott	04 Jul 2012 09:56	4.0
163	RealRootsApprox bombs	CoCoA-5.0.3	John Abbott	13 Jul 2012 15:27	
162	RegularityIndex <= 0	CoCoA-5.0.3	Anna Maria Bigatti	08 Jun 2012 17:20	2.5

#	Subject	Target version	Assignee	Updated	Estimated time
226	HilbertBasis segv	CoCoA-5.0.9	Anna Maria Bigatti	02 Apr 2014 18:30	6.0
318	implement "indent" for modules	CoCoA-5.0.9	Anna Maria Bigatti	01 Aug 2013 07:29	
446	intersection fails with zero ideal	CoCoA-5.0.9	Anna Maria Bigatti	02 Apr 2014 18:35	3.0
418	What does interreduce do?	CoCoA-5.0.9	Anna Maria Bigatti	02 Apr 2014 18:30	2.0
419	FloatStr	CoCoA-5.1.0 Easter14	John Abbott	24 Apr 2014 19:53	2.0
367	implement LF/DF for an ideal	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	09 May 2014 12:51	3.5
384	IsZero for matrix	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	07 May 2014 14:01	2.5
544	sorted gives wrong answer sometimes	CoCoA-5.1.0 Easter14	John Abbott	07 May 2014 13:39	4.0
514	submodule: minimalize, minimalized	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	09 May 2014 13:28	2.5
509	SyzOfGens (CoCoA-5) does not have correct shifts	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	10 Apr 2014 18:02	2.0
549	Automatic conversion from RINGELEM to INT or RAT	CoCoA-5.1.1 Seoul14	John Abbott	03 Sep 2014 16:00	5.0
279	Bug in Radical (actually a RingHom problem)	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	03 Sep 2014 18:47	20.0
552	C5 BuiltinFunctions.c fn RingElem	CoCoA-5.1.1 Seoul14	John Abbott	04 Sep 2014 12:18	1.0
594	CharPoly(MAT) and MinPoly(MAT) work in different settings: unify behaviour	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	02 Sep 2014 11:03	2.5
382	Subtle bug with CoeffEmbeddingHom	CoCoA-5.1.1 Seoul14	John Abbott	28 Jul 2014 21:50	1.1
643	GenRepr fails if there are zero generators	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	26 Jun 2015 12:13	3.0
548	Printing rings with ID	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	29 Jul 2015 12:43	7.501
1080	intersect: problem with zero generators	CoCoA-5.2.2	Anna Maria Bigatti	11 Dec 2017 17:41	1.71
1062	IsRadical bug?	CoCoA-5.2.2	Anna Maria Bigatti	10 Nov 2017 12:18	
1133	Radical bug	CoCoA-5.2.2	Anna Maria Bigatti	11 Dec 2017 19:19	2.0
981	SqFreeFactor: small (or big) bug?	CoCoA-5.2.2	John Abbott	13 Nov 2017 15:57	0.75
1157	FactorAlgExt	CoCoA-5.2.4	Elisa Palezzato	31 Jul 2018 13:13	2.01

### Manual/documentation (82)

863	CoCoA-5 manual: IsInteger and IsRational are missing?	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	27 Apr 2017 15:03	0.77
1046	CoCoA-5 no longer lists the external libs present	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	27 Apr 2017 15:38	1.01
170	CoCoAManual HTML: page for "Try"	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	06 Mar 2017 16:44	
1040	CoCoAManual: entry for SetVerbosityLevel/VerbosityLevel	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	27 Apr 2017 15:20	0.99
521	Manual: automatically check all examples	CoCoA-5.2.0 spring 2017		28 Apr 2017 14:34	
963	Manual: XML problem with html doc	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	26 Apr 2017 16:00	2.0
1024	CoCoA Manual: consistent spacing in VarName: TYPE	CoCoA-5.3.0	Anna Maria Bigatti	10 Oct 2019 18:24	
1408	CoCoAManual - tex: error if syntax is missing	CoCoA-5.3.0	Anna Maria Bigatti	13 Feb 2020 18:59	2.01
1027	CoCoAManual: add a page with some emacs hints?	CoCoA-5.3.0	Anna Maria Bigatti	09 Mar 2020 15:36	2.34

#	Subject	Target version	Assignee	Updated	Estimated time
890	ImportByRef and ImportByValue behave in an unexpected manner (i.e. fail when I think they should succeed)	CoCoA-5.3.0	John Abbott	26 Feb 2020 16:50	1.5
1368	Improve manual for mod	CoCoA-5.3.0	John Abbott	13 Feb 2020 15:44	0.77
1386	IsIndetPosPower: behaviour and manual page	CoCoA-5.3.0	John Abbott	25 Feb 2020 11:16	0.99
991	make htmldoc always recreates everything (even if no change was made)	CoCoA-5.3.0	John Abbott	04 Mar 2020 16:15	3.33
1335	ManExamples: some problems	CoCoA-5.3.0	John Abbott	24 Feb 2020 16:56	3.33
1315	Manual entry about reporting bugs?	CoCoA-5.3.0	John Abbott	14 Feb 2020 10:49	1.01
1303	Manual looking for "?"	CoCoA-5.3.0	John Abbott	05 Mar 2020 12:03	0.75
1258	Manual page for CantStop	CoCoA-5.3.0	Anna Maria Bigatti	09 Mar 2020 13:18	
1400	Title of manual entry: tutorial on operations on polynomials	CoCoA-5.3.0	John Abbott	14 Feb 2020 13:43	0.66
168	Type info in CoCoA-5 manual	CoCoA-5.3.0	Anna Maria Bigatti	10 Oct 2019 17:37	
1333	Typevectors	CoCoA-5.3.0	Anna Maria Bigatti	30 Apr 2020 15:02	2.22
1404	Which commands should "terms" be a keyword for?	CoCoA-5.3.0	John Abbott	04 Mar 2020 19:00	0.75
1312	Wrong links on page about COCOA School in Sapporo	CoCoA-5.3.0	Anna Maria Bigatti	14 Feb 2020 10:51	
27	CoCoA-5 Manual	CoCoA-5.0.2	Anna Maria Bigatti	01 Jun 2012 17:59	150.0
79	Sort entries in CoCoAHelp.xml and write code on OnlineHelp.C to check sorting	CoCoA-5.0.2	Anna Maria Bigatti	23 Jan 2012 14:11	0.5
293	Add CpuTime to C5 manual	CoCoA-5.0.3	Anna Maria Bigatti	11 Feb 2013 12:03	
333	manual entry for "indent"	CoCoA-5.0.3	Anna Maria Bigatti	21 May 2013 17:24	1.0
325	CoCoAManual: display syntax first	CoCoA-5.0.9	Anna Maria Bigatti	31 Jul 2014 17:36	4.0
370	OnlineHelp: Problem with "><" in syntax of CartesianProduct	CoCoA-5.0.9	Anna Maria Bigatti	21 Mar 2014 11:30	
394	problem with ContentFreeFactor (and missing manual entry)	CoCoA-5.0.9	John Abbott	03 Apr 2014 20:10	0.5
495	CoCoAManual: add page about creating lists	CoCoA-5.1.0 Easter14	John Abbott	02 Jul 2014 16:51	1.5
176	CoCoAManual: Doc for new commands	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	02 Jul 2014 16:48	3.0
489	CoCoAManual: Doc for strings	CoCoA-5.1.0 Easter14	John Abbott	02 Jul 2014 16:52	4.0
188	CoCoAManual: entries for operators	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	02 Jul 2014 16:46	5.0
334	CoCoAManual: entry for "and", "or", "not" operators	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	02 Jul 2014 16:47	2.0
542	CoCoAManual: improve part on data-types	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	02 Jul 2014 16:40	20.0
555	CoCoAManual: improve part on language	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	02 Jul 2014 16:40	20.0
558	CoCoAManual: semi-automatic check of all input	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	01 Aug 2014 10:57	8.0
225	HilbertBasis: cocoa vs normaliz	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	20 May 2014 17:54	1.5
463	Make man page for "It" easier to read	CoCoA-5.1.0 Easter14	John Abbott	24 Apr 2014 20:26	3.0
341	Remove/replace the word "vector" in the manual	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	11 Apr 2014 15:06	0.5
179	TeX documentation for CoCoA-5	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	14 May 2014 16:56	5.0

#	Subject	Target version	Assignee	Updated	Estimated time
369	write documentation for TgCone and other function from the "primary" package	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	07 May 2014 14:07	2.0
488	CoCoAManual: Help page for porting old C4 code to C5	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	04 Sep 2014 12:29	
556	CoCoAManual: improve part on tagging	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	04 Sep 2014 18:31	3.0
456	CoCoAManual: New structure for manual?	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	05 Sep 2014 11:38	3.0
34	CoCoAManual: obsolete entries in the manual	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	02 Sep 2014 11:30	15.0
324	Correct font for variable references in description	CoCoA-5.1.1 Seoul14		31 Jul 2014 15:15	
286	How to test (automatically) a user defined CoCoA function	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	04 Sep 2014 13:46	
543	Interpreter: problem when calling the manual with trailing spaces and comments	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	27 Aug 2014 18:19	2.5
566	Online help: problem with "<>"	CoCoA-5.1.1 Seoul14	John Abbott	16 Jul 2014 12:32	2.0
609	Package "empty.cpkg5"	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	03 Sep 2014 13:39	0.9
717	CoCoAManual: improve part on RINGHOM	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	29 Jul 2015 16:25	1.5
466	CoCoAManual: add entry summarising syntax of all CoCoA-5 commands	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	29 Jul 2015 12:12	2.0
251	How to add a test for CoCoA-5 (CoCoAInterpreter)	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	29 Jul 2015 12:12	1.5
522	Manual: duplication in "see also" and "All other matches"	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	29 Jul 2015 16:21	2.0
1021	CoCoA Manual: search should ignore multiple spaces	CoCoA-5.2.2	John Abbott	15 Nov 2017 17:19	1.88
439	CoCoA website: download pages and installing instructions	CoCoA-5.2.2	Anna Maria Bigatti	11 Dec 2017 18:14	3.01
1000	CoCoAManual for "all cocoa commands"	CoCoA-5.2.2	Anna Maria Bigatti	15 Dec 2017 16:20	2.01
1023	CoCoAManual for verbosity: how to find which levels? how to find which functions?	CoCoA-5.2.2	Anna Maria Bigatti	12 Dec 2017 11:01	
1055	CoCoAManual: duplication (2 pages for operators)	CoCoA-5.2.2	Anna Maria Bigatti	11 Dec 2017 17:10	
1074	CoCoAManual: entry for radical	CoCoA-5.2.2	Anna Maria Bigatti	15 Dec 2017 15:41	
1073	RelNotes: current version or all previous versions?	CoCoA-5.2.2	Anna Maria Bigatti	15 Dec 2017 15:57	1.51
1164	Manual: loading manual entries written by users	CoCoA-5.2.4	Anna Maria Bigatti	10 Oct 2019 19:26	20.0
1188	Product of empty list: manual and code disagree	CoCoA-5.2.4	John Abbott	30 Jul 2018 14:33	1.1
1525	CoCoA Manual: homogenize obsolete/obsolescent entries	CoCoA-5.4.0	Anna Maria Bigatti	18 Feb 2022 17:01	2.44
1451	CoCoA Manual: make search keys public	CoCoA-5.4.0	Anna Maria Bigatti	18 Feb 2022 17:13	2.5
1214	CoCoAManual: ensure that LaTeX compilation is "clean"	CoCoA-5.4.0	John Abbott	18 Feb 2022 17:15	0.55
1111	CoCoAManual: searching for ?? mat and for ?? matrix give different results	CoCoA-5.4.0	Anna Maria Bigatti	15 May 2020 13:56	1.01
1268	Documentation for how to write a CoCoA package	CoCoA-5.4.0	Anna Maria Bigatti	02 Mar 2022 16:14	
1487	EOF for OpenFile	CoCoA-5.4.0	John Abbott	09 Oct 2020 13:45	1.99
1498	Export many names or just one?	CoCoA-5.4.0	John Abbott	08 Jan 2021 11:23	1.11
169	Font for parameters in manual	CoCoA-5.4.0	Anna Maria Bigatti	31 May 2022 10:35	4.0
1478	HilbertBasis: clarify	CoCoA-5.4.0	Anna Maria Bigatti	23 Feb 2022 12:28	0.5
1298	How can user find the indent command?	CoCoA-5.4.0	John Abbott	19 Mar 2021 12:43	1.23

#	Subject	Target version	Assignee	Updated	Estimated time
1455	In a release: which files inside the CoCoAManual	CoCoA-5.4.0	John Abbott	18 Feb 2022 17:16	0.99
1658	LinKerZZ not documented	CoCoA-5.4.0	John Abbott	16 Feb 2022 20:11	1.01
1459	Manual entries for mod and div	CoCoA-5.4.0	John Abbott	03 Nov 2020 22:03	0.99
1447	Manual entry for RandomLinearForm	CoCoA-5.4.0	John Abbott	23 Feb 2022 12:54	0.66
406	Manual for CoCoAManual/CoCoAHelp.xml	CoCoA-5.4.0	Anna Maria Bigatti	13 Jun 2022 15:33	4.0
1504	OnlineHelp: XMLFileName	CoCoA-5.4.0	John Abbott	23 Feb 2022 11:53	2.01
1660	Updating file obsolescent.cpkg5: make it easier	CoCoA-5.4.0	Anna Maria Bigatti	14 Feb 2022 18:16	3.51
1539	Website: installation instructions for Microsoft	CoCoA-5.4.2	Anna Maria Bigatti	14 Mar 2023 11:56	

### Parser/Interpreter (60)

1045	Error message from cocolib to cocoa-5	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	28 Apr 2017 19:21	1.01
1018	Interpreter: limit range for "." operator	CoCoA-5.2.0 spring 2017	John Abbott	28 Apr 2017 16:20	1.44
478	Use of dollar-dot (\$) in packages	CoCoA-5.2.0 spring 2017	John Abbott	05 Sep 2016 12:39	0.7
997	Using protected variable names for "bound variables" (e.g. for, try...endtry)	CoCoA-5.3.0	John Abbott	04 Mar 2020 19:09	0.99
33	Modify the packages so that -w3 produces no warnings during start-up	CoCoA-5.0.2	Anna Maria Bigatti	23 Jan 2012 14:13	4.3
115	PP ordering bug	CoCoA-5.0.2	Anna Maria Bigatti	28 Mar 2012 14:29	1.0
109	SmoothFactor should allow large first arg	CoCoA-5.0.2	Anna Maria Bigatti	19 Mar 2012 18:01	0.5
108	Unhandled division by zero in FFp	CoCoA-5.0.2	Anna Maria Bigatti	20 Mar 2012 16:21	2.0
103	Bad error mesg using operator ":"	CoCoA-5.0.3	John Abbott	04 Jul 2012 09:57	2.0
185	Banner for CoCoA-5	CoCoA-5.0.3	Anna Maria Bigatti	04 Jul 2012 10:03	
344	basic_string::erase error in interpreter	CoCoA-5.0.3	John Abbott	24 May 2013 18:55	
343	Interpreter SEGV	CoCoA-5.0.3	John Abbott	24 May 2013 14:41	
137	JAA does not like the name IndetInd	CoCoA-5.0.3	Anna Maria Bigatti	08 Jun 2012 17:30	3.25
189	malloc ERROR	CoCoA-5.0.3	John Abbott	04 Jul 2012 10:01	
102	Packages: should exported functions be automatically "Protect"ed?	CoCoA-5.0.3	John Abbott	18 Feb 2013 18:30	
201	segmentation fault with function defined in package ("PrintHGIndices"): First and Last	CoCoA-5.0.3	Anna Maria Bigatti	04 Jul 2012 09:45	1.5
194	Unhandled CoCoALib error: mixed rings with IsIn operator (for ideal membership)	CoCoA-5.0.3	John Abbott	04 Jul 2012 09:56	
105	Add I*f and f*I (RINGELEM and IDEAL)	CoCoA-5.0.9	John Abbott	01 Apr 2014 18:46	3.0
392	add Value::from(factorization<.>)	CoCoA-5.0.9	Anna Maria Bigatti	01 Aug 2013 07:32	
393	add Value::from(HPSeries)	CoCoA-5.0.9	Anna Maria Bigatti	01 Aug 2013 07:35	
193	BuiltinFunctions.C getting too long (2000 lines)	CoCoA-5.0.9	Anna Maria Bigatti	01 Aug 2013 08:10	
306	Function for accessing the pointed value	CoCoA-5.0.9	Anna Maria Bigatti	21 Mar 2014 11:31	
364	Incr command/function	CoCoA-5.0.9	John Abbott	03 Apr 2014 20:20	1.0

#	Subject	Target version	Assignee	Updated	Estimated time
284	BuiltInFunctions: more flexible typing in one-line function declaration	CoCoA-5.1.0 Easter14		08 Apr 2014 08:25	0.25
94	Default reason for protected variables	CoCoA-5.1.0 Easter14	John Abbott	24 Apr 2014 13:16	3.0
208	describe \$package	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	06 May 2014 18:14	2.0
481	Multiline comments -- obsolescent?	CoCoA-5.1.0 Easter14	John Abbott	02 May 2014 17:47	4.0
473	Multiline string literals - useful or obsolescent?	CoCoA-5.1.0 Easter14	John Abbott	07 May 2014 17:32	5.0
471	Nested multiline comments	CoCoA-5.1.0 Easter14	John Abbott	02 May 2014 17:49	5.0
294	BuiltInFunctions: General "OneLiner" for arguments of different type	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	05 Sep 2014 11:51	2.0
524	BuiltInFunctions: remove calls to WrongTypeException	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	28 Jul 2014 11:48	3.0
576	Disallow juxtaposition for string literals?	CoCoA-5.1.1 Seoul14	John Abbott	26 Jun 2014 15:33	
321	interpreter proposes no near misses for "bin"	CoCoA-5.1.1 Seoul14	John Abbott	04 Sep 2014 12:54	4.1
104	Misprints suggestions: Z --> ZZ	CoCoA-5.1.1 Seoul14	John Abbott	11 Sep 2014 17:38	3.0
403	Misuse of dot-dot operator	CoCoA-5.1.1 Seoul14	John Abbott	29 Jul 2014 16:26	2.2
563	Remove ZMOD type from CoCoAInterpreter	CoCoA-5.1.1 Seoul14	John Abbott	01 Sep 2014 18:30	2.0
595	rename BigIntValue, IdealValue --> INTValue, IDEALValue? or even INT, IDEAL?	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	04 Sep 2014 13:33	10.0
182	Unescaped double quote inside superstring	CoCoA-5.1.1 Seoul14	John Abbott	26 Jun 2014 15:11	7.5
378	Ungraceful behaviour: Source inside For loop	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	27 Aug 2014 18:06	2.0
307	Value::from makes BigIntValue::fromInt obsolete?	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	05 Sep 2014 11:43	1.0
317	BuiltInFunctions: evalArgAsLong	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	29 Jul 2015 16:15	3.01
706	meaningful error for IDEAL <= IDEAL	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	28 Jul 2015 14:32	1.0
668	Remove keyword "weights"?	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	27 Jul 2015 15:16	4.01
352	Should SourceRegion echo the "region"?	CoCoA-5.1.2 summer 2015	Anna Maria Bigatti	30 Jul 2015 14:19	4.44
782	BuiltinFunctions -- getting too long again!	CoCoA-5.1.3/4 Jan 2016	Anna Maria Bigatti	16 Feb 2016 17:58	2.0
345	Interpreter interrupt delayed confusingly	CoCoA-5.1.3/4 Jan 2016	John Abbott	04 Dec 2017 11:45	2.01
697	Interpreter: Avoid outputting an empty line after each line of input	CoCoA-5.2.2	Anna Maria Bigatti	11 Dec 2017 17:08	1.01
911	CoCoA-5 prompt for incomplete input	CoCoA-5.4.0	John Abbott	14 May 2021 17:32	2.22
1613	CRASH with RingHom from FrF	CoCoA-5.4.0	Anna Maria Bigatti	10 Nov 2021 18:07	2.66
1543	Default path for packages	CoCoA-5.4.0	Anna Maria Bigatti	08 Jan 2021 11:28	1.01
346	Describe should indicate package name	CoCoA-5.4.0	Anna Maria Bigatti	19 Mar 2021 12:48	2.22
530	Interpreter error message: "for" with missing "do"	CoCoA-5.4.0		03 Mar 2022 15:46	1.01
500	Interpreter: is it possible to avoid useless prompts?	CoCoA-5.4.0	John Abbott	14 May 2021 17:43	7.47
692	Local variables hiding out ones at top level	CoCoA-5.4.0	John Abbott	02 Oct 2020 11:43	0.99
1200	Package exported function: wrong package name	CoCoA-5.4.0		02 Oct 2020 07:54	1.01
531	Package protected variables should know which package protected them	CoCoA-5.4.0	Anna Maria Bigatti	14 May 2021 17:37	8.0

#	Subject	Target version	Assignee	Updated	Estimated time
1594	Parser bug: missing close square bracket	CoCoA-5.4.0	Anna Maria Bigatti	14 Sep 2021 11:46	3.51
1587	Multiline string literals (again)	CoCoA-5.4.2	John Abbott	14 Mar 2023 21:52	1.49
461	New keyword " ->"? (same as "return")	CoCoA-5.4.2	John Abbott	26 Sep 2022 16:23	
35	Optional warnings for fn-proc arity	CoCoA-5.?.?	John Abbott	07 Oct 2022 10:56	0.75
<b>Portability (22)</b>					
1307	Linking problem	CoCoA-5.3.0		05 Sep 2019 16:17	
118	unistd and call to access in Main.C		John Abbott	20 Mar 2014 17:22	8.0
249	BuiltIn Normaliz functions not available in CoCoA5Interpreter	CoCoA-5.0.3	Anna Maria Bigatti	21 May 2013 18:09	
217	Makedependencies of CoCoA-5 fails if BOOST is absent	CoCoA-5.0.3	John Abbott	21 May 2013 18:32	4.0
191	Slow lex gbasis	CoCoA-5.0.3	John Abbott	21 May 2013 18:33	
220	Trouble on Linux: many CoCoA-5 tests fail (0.9952)	CoCoA-5.0.3	John Abbott	21 May 2013 18:31	3.0
447	CoCoA-5.0.3 Microsoft std::bad_alloc	CoCoA-5.1.0 Easter14	Anna Maria Bigatti	22 May 2014 17:20	2.0
338	MacOS version with static gcc libraries	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	04 Sep 2014 12:39	8.0
245	Meaningful error for functions defined in "missing" external library	CoCoA-5.1.1 Seoul14	Anna Maria Bigatti	11 Sep 2014 17:40	
541	Unify releases for Linux 32 and Linux 64	CoCoA-5.1.1 Seoul14	John Abbott	11 Sep 2014 17:40	
117	Added 3 times defn of isblank fn	CoCoA-5.1.3/4 Jan 2016	John Abbott	17 Feb 2016 13:25	2.0
632	MacOSX: many warnings with compiler CLANG/LLVM when compiling BOOST code.	CoCoA-5.1.3/4 Jan 2016	John Abbott	14 Oct 2022 16:25	
545	Compiler g++ 4.2.1 (clang-503.0.40) on MacOSX 10.9: warnings and errors	CoCoA-5.2.2		12 Mar 2019 16:40	10.0
988	Makefile: install target for cocoa5	CoCoA-5.2.2	John Abbott	15 Dec 2017 15:46	
1007	(makefile) New "clean" target which does not clean documentation	CoCoA-5.2.4	John Abbott	30 Jul 2018 18:02	7.7
1479	CoCoA release for linux: CoCoAInterpreter: with and without libreadline?	CoCoA-5.4.0	John Abbott	16 Feb 2022 20:07	6.8
1356	CoCoA-5 header files: should use a common prefix for CPP variables which enforce read-once	CoCoA-5.4.0	John Abbott	12 Nov 2021 10:45	1.11
1294	CoCoA-5 tests may fail even if executed correctly	CoCoA-5.4.0	John Abbott	03 Feb 2022 19:40	2.75
922	Release for MacOS: compilation on 10.11 incompatible with 10.6.8	CoCoA-5.4.0	Anna Maria Bigatti	09 Feb 2022 19:41	1.25
1524	wrong SystemCommand exit value	CoCoA-5.4.0	John Abbott	16 Feb 2022 19:53	0.66
1695	boost-find-lib.sh	CoCoA-5.4.2	John Abbott	09 Mar 2023 22:42	0.88
1675	Version 5.4.0 requires Visual C++ Runtime 2013 on Windows	CoCoA-5.4.2		31 Mar 2024 20:40	
<b>Release (29)</b>					
852	fix OnlineManual.C so that version number may be removed from CoCoAHelp.xml	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	01 Mar 2017 13:31	1.0
851	Release: CoCoA-5.2.0	CoCoA-5.2.0 spring 2017	Anna Maria Bigatti	08 May 2017 11:57	14.01

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