

## CoCoA-5 - CoCoA-5.4.0 (March 2022)

#	Priority	Subject	Assignee	Updated	Category	% Done	Estimated time
<b>bug (12)</b>							
1610	High	IsInRadical: some more little bugs	Anna Maria Bigatti	12 Nov 2021 09:48	bug	100	
1397	Normal	Crashes if CoCoAHelp.xml is missing	Anna Maria Bigatti	12 Nov 2021 10:23	bug	100	
1407	Normal	Tagged values (Hilbert Series)	Anna Maria Bigatti	18 Feb 2022 16:22	bug	100	1.51
1509	Normal	RingElems with empty input	Anna Maria Bigatti	08 Jan 2021 11:35	bug	100	3.01
1577	Normal	radical: lex order, ERROR: Ring is not standard graded	Anna Maria Bigatti	19 Mar 2021 12:39	bug	100	
1531	High	CRASH: arithmetic with HilbertSeries (tagged object)	John Abbott	24 Sep 2021 22:16	bug	100	0.99
1595	High	Bad input causes crash	John Abbott	21 Jun 2021 15:44	bug	100	2.5
1215	Normal	RationalSolve: gives "Error: must be non-zero"	John Abbott	24 Sep 2021 22:35	bug	100	0.49
1216	Normal	RationalSolve: gives wrong answer	John Abbott	24 Sep 2021 21:50	bug	100	5.55
1567	Normal	Radical in non-zero char	John Abbott	19 Mar 2021 12:52	bug	100	0.95
1614	Normal	SourceRegion gives misleading error mesg	John Abbott	10 Nov 2021 18:04	bug	100	1.66
1651	Normal	SEGV subsets ??	John Abbott	03 Feb 2022 19:03	bug	100	0.99
<b>Cleaning (5)</b>							
1396	High	Website: download page for CoCoA-4 burns CPU	Anna Maria Bigatti	04 Mar 2021 17:15	Cleaning	100	
1398	High	Website: hide/delete all the CoCoA-4 stuff?	Anna Maria Bigatti	12 Nov 2021 11:14	Cleaning	100	0.44
250	Low	CoCoALib BuildInfo vs CoCoA-5 VersionInfo	Anna Maria Bigatti	14 May 2021 17:48	Cleaning	100	0.25
1506	Low	Remove XMLFileName from Main.C	John Abbott	16 Sep 2021 12:36	Cleaning	100	
1520	Low	Replace BOOST_FOREACH by new C++14 range for syntax	John Abbott	29 Jan 2021 12:05	Cleaning	100	1.44
<b>CoCoA-4 function to be added (2)</b>							
606	Normal	Evaluate in ring operator (was called :: in CoCoA-4)	Anna Maria Bigatti	16 Feb 2022 20:02	CoCoA-4 function to be added	100	1.0
1536	Normal	Implement xel?	John Abbott	24 Sep 2021 22:37	CoCoA-4 function to be added	100	1.49
<b>CoCoA-5 function: new (5)</b>							
1174	High	package of a function --> of an identifier!	Anna Maria Bigatti	29 Jan 2021 15:43	CoCoA-5 function: new	100	
1546	Normal	Improve 'describe' or 'print' for a function	Anna Maria Bigatti	04 Mar 2021 17:27	CoCoA-5 function: new	100	2.89
1272	Normal	Groebner Bases over ZZ	John Abbott	17 Feb 2022 21:22	CoCoA-5 function: new	100	14.99
1516	Normal	substring function	John Abbott	29 Jan 2021 12:03	CoCoA-5 function: new	100	0.99
1431	Normal	Juxtaposition of string literals	John Abbott	14 Sep 2021 11:45	CoCoA-5 function: new	100	1.99
<b>EmacsUI (6)</b>							

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1505	High	EmacsUI: fix "Go to Error C-c C-p"	Anna Maria Bigatti	14 Oct 2020 14:06	EmacsUI	100	1.0
1412	Normal	Emacs UI: font size	John Abbott	10 Nov 2021 18:17	EmacsUI	100	3.55
1526	Normal	EmacsUI: help/manual for selected string -- or just for word with cursor on?	John Abbott	07 Mar 2022 15:32	EmacsUI	100	2.51
1554	Normal	cocoa5-emacs-dir or cocoa5-root-dir?	John Abbott	04 Mar 2021 17:10	EmacsUI	100	1.23
1507	Low	wordlist without OBSOLETE entries?	John Abbott	14 May 2021 17:49	EmacsUI	100	0.88
1537	Low	EmacUI: strange colours, sometimes	John Abbott	24 Sep 2021 22:32	EmacsUI	100	1.79
<b>enhancing/improving (23)</b>							
1392	Normal	ApproxSolve: another slow example	Anna Maria Bigatti	24 Sep 2021 22:21	enhancing/improving	100	1.55
1461	Normal	Automatic mapping for multiplication?	Anna Maria Bigatti	27 Oct 2020 19:08	enhancing/improving	100	3.66
1530	Normal	VersionInfo -- better field names?	Anna Maria Bigatti	08 Jan 2021 11:24	enhancing/improving	100	2.22
1597	Normal	GetRow/GetRows are extraordinarily slow	Anna Maria Bigatti	14 Sep 2021 11:47	enhancing/improving	100	3.33
1514	High	Cocoa crashes when calling RingElems	John Abbott	03 Dec 2020 21:31	enhancing/improving	100	4.33
636	High	Distinguish indets from symbols in coeffering in Use command	John Abbott	27 Oct 2020 17:59	enhancing/improving	100	0.66
637	Normal	Undesirable consequence of automatic mapping of RingElems?	John Abbott	27 Oct 2020 18:15	enhancing/improving	100	1.81
687	Normal	Builtin fn makes unnecessary copy of arg	John Abbott	28 May 2021 15:43	enhancing/improving	100	0.75
724	Normal	RationalSolve: wrongly complains about non zero-dim even in finite char	John Abbott	19 Mar 2021 12:43	enhancing/improving	100	1.44
1029	Normal	Readline: does not recognize interrupts	John Abbott	07 Mar 2022 16:58	enhancing/improving	100	2.02
1270	Normal	RationalSolve: use MinPolyQuot instead of elim	John Abbott	16 Sep 2021 12:40	enhancing/improving	100	0.99
1287	Normal	Better err mesg for easy typo in ring definition	John Abbott	16 Sep 2021 12:38	enhancing/improving	100	
1493	Normal	Automatic ring mapping in assignment?	John Abbott	02 Apr 2021 08:54	enhancing/improving	100	
1495	Normal	Package exporting nothing?	John Abbott	08 Jan 2021 11:51	enhancing/improving	100	3.51
1512	Normal	Package with unexpected EOF	John Abbott	08 Jan 2021 11:53	enhancing/improving	100	0.51
1540	Normal	Double power	John Abbott	24 Sep 2021 21:45	enhancing/improving	100	2.49
1553	Normal	Timing SystemCommand	John Abbott	19 Mar 2021 13:09	enhancing/improving	100	
1599	Normal	ConcatStr	John Abbott	14 Sep 2021 11:53	enhancing/improving	100	1.11
674	Normal	Ring constructor: allow empty range for indices?	John Abbott	14 Oct 2020 14:43	enhancing/improving	100	1.21
1501	Normal	testing for syntax errors	John Abbott	05 Nov 2021 16:53	enhancing/improving	100	
1615	Normal	apply: remove for RingHom	John Abbott	04 Oct 2021 11:57	enhancing/improving	100	0.22
1489	Low	Unhelpful error message for package followed by identifier (without dollar sign)	John Abbott	14 Oct 2020 13:58	enhancing/improving	100	1.99
1527	Low	Inadequate error message on incorrect list access	John Abbott	08 Jan 2021 11:19	enhancing/improving	100	2.33

**External Libs (1)**

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#	Priority	Subject	Assignee	Updated	Category	% Done	Estimated time
713	Normal	External libs: interrupting not easy	John Abbott	24 Sep 2021 21:58	External Libs	100	2.66
<b>Manual/documentation (17)</b>							
1268	High	Documentation for how to write a CoCoA package	Anna Maria Bigatti	02 Mar 2022 16:14	Manual/documentation	100	
1451	High	CoCoA Manual: make search keys public	Anna Maria Bigatti	18 Feb 2022 17:13	Manual/documentation	100	2.5
406	Normal	Manual for CoCoAManual/CoCoAHelp.xml	Anna Maria Bigatti	13 Jun 2022 15:33	Manual/documentation	100	4.0
1111	Normal	CoCoAManual: searching for ?? mat and for ?? matrix give different results	Anna Maria Bigatti	15 May 2020 13:56	Manual/documentation	100	1.01
1478	Normal	HilbertBasis: clarify	Anna Maria Bigatti	23 Feb 2022 12:28	Manual/documentation	100	0.5
1525	Normal	CoCoA Manual: homogenize obsolete/obsolescent entries	Anna Maria Bigatti	18 Feb 2022 17:01	Manual/documentation	100	2.44
1660	Normal	Updating file obsolescent.cpkg5: make it easier	Anna Maria Bigatti	14 Feb 2022 18:16	Manual/documentation	100	3.51
169	Low	Font for parameters in manual	Anna Maria Bigatti	31 May 2022 10:35	Manual/documentation	100	4.0
1459	High	Manual entries for mod and div	John Abbott	03 Nov 2020 22:03	Manual/documentation	100	0.99
1214	Normal	CoCoAManual: ensure that LaTeX compilation is "clean"	John Abbott	18 Feb 2022 17:15	Manual/documentation	100	0.55
1298	Normal	How can user find the indent command?	John Abbott	19 Mar 2021 12:43	Manual/documentation	100	1.23
1447	Normal	Manual entry for RandomLinearForm	John Abbott	23 Feb 2022 12:54	Manual/documentation	100	0.66
1455	Normal	In a release: which files inside the CoCoAManual	John Abbott	18 Feb 2022 17:16	Manual/documentation	100	0.99
1487	Normal	EOF for OpenIFile	John Abbott	09 Oct 2020 13:45	Manual/documentation	100	1.99
1498	Normal	Export many names or just one?	John Abbott	08 Jan 2021 11:23	Manual/documentation	100	1.11
1504	Normal	OnlineHelp: XMLFileName	John Abbott	23 Feb 2022 11:53	Manual/documentation	100	2.01
1658	Normal	LinKerZZ not documented	John Abbott	16 Feb 2022 20:11	Manual/documentation	100	1.01
<b>Parser/Interpreter (10)</b>							
530	Normal	Interpreter error message: "for" with missing "do"		03 Mar 2022 15:46	Parser/Interpreter	100	1.01
1200	Low	Package exported function: wrong package name		02 Oct 2020 07:54	Parser/Interpreter	100	1.01
1543	High	Default path for packages	Anna Maria Bigatti	08 Jan 2021 11:28	Parser/Interpreter	100	1.01
1594	High	Parser bug: missing close square bracket	Anna Maria Bigatti	14 Sep 2021 11:46	Parser/Interpreter	100	3.51
1613	High	CRASH with RingHom from FrF	Anna Maria Bigatti	10 Nov 2021 18:07	Parser/Interpreter	100	2.66
346	Normal	Describe should indicate package name	Anna Maria Bigatti	19 Mar 2021 12:48	Parser/Interpreter	100	2.22
531	Normal	Package protected variables should know which package protected them	Anna Maria Bigatti	14 May 2021 17:37	Parser/Interpreter	100	8.0
500	Normal	Interpreter: is it possible to avoid useless prompts?	John Abbott	14 May 2021 17:43	Parser/Interpreter	100	7.47
911	Normal	CoCoA-5 prompt for incomplete input	John Abbott	14 May 2021 17:32	Parser/Interpreter	100	2.22
692	Normal	Local variables hiding out ones at top level	John Abbott	02 Oct 2020 11:43	Parser/Interpreter	100	0.99

### Portability (5)

#	Priority	Subject	Assignee	Updated	Category	% Done	Estimated time
922	Normal	Release for MacOS: compilation on 10.11 incompatible with 10.6.8	Anna Maria Bigatti	09 Feb 2022 19:41	Portability	100	1.25
1356	Normal	CoCoA-5 header files: should use a common prefix for CPP variables which enforce read-once	John Abbott	12 Nov 2021 10:45	Portability	100	1.11
1479	Normal	CoCoA release for linux: CoCoAInterpreter: with and without libreadline?	John Abbott	16 Feb 2022 20:07	Portability	100	6.8
1524	Normal	wrong SystemCommand exit value	John Abbott	16 Feb 2022 19:53	Portability	100	0.66
1294	Low	CoCoA-5 tests may fail even if executed correctly	John Abbott	03 Feb 2022 19:40	Portability	100	2.75
<b>Release (3)</b>							
1471	Urgent	Release CoCoA-5.4.0		13 Jun 2022 15:33	Release	100	
1443	Urgent	Illegal instruction	John Abbott	03 Feb 2022 19:37	Release	100	4.19
1550	Normal	version number for CoCoA5 snapshot release?	John Abbott	08 Jan 2021 11:30	Release	100	
<b>Renaming (2)</b>							
1194	Normal	Rename HilbertBasisKer into LinKerHilbertBasis?	Anna Maria Bigatti	23 Feb 2022 12:37	Renaming	100	0.5
1151	Normal	ConcatList or ConcatLists	John Abbott	29 Jan 2021 12:26	Renaming	100	0.77