

CoCoA-5

	2023-10				2023-11				2023-12				2024-1				2024-2				2024-3				
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CoCoA																									
CoCoA-5	CoCoA-5																								
unistd and call to access in Main.C																									
./C5.bin: fork: Resource temporarily (...)																									
CoCoA-5 - CoCoA-5.2.0 spring 2017	CoCoA-5.2.0 spring 2017 100%																								
CoCoAManual HTML: page for "Try"	Closed 100%																								
Normaliz tests for CoCoA5	Closed 100%																								
ReducedGBasis not memorized in (...)	Closed 100%																								
Use of dollar-dot (\$) in packages	Closed 100%																								
Manual: automatically check all (...)	Closed 100%																								
Release: CoCoA-5.2.0	Closed 100%																								
ExternalLib Normaliz: verbose flag?	Closed 100%																								
External Libs: print credits?	Closed 100%																								
Primary Decomposition in CoCoA-5: (...)	Closed 100%																								
Primary Decomposition in CoCoA-5.1.6: (...)	Closed 100%																								
Handle interrupts more helpfully	Closed 100%																								
Emacs UI: return inside a block (...)	Closed 100%																								
readline: fix script for finding (...)	Closed 100%																								
fix OnlineManual.C so that version (...)	Closed 100%																								
CoCoA-5 manual: IsInteger and IsRational (...)	Closed 100%																								
Der, Bin: why the capital letter?	Closed 100%																								
GBasis of product of ideals is (...)	Closed 100%																								
Easier syntax to make a PRINCIPAL (...)	Closed 100%																								
RingElem applied to a symbol (repr (...)	Closed 100%																								
subst should check that indet is (...)	Closed 100%																								
gin: return/print a suitable change (...)	Closed 100%																								
New function CallOnGroebnerFanIdeals: (...)	Closed 100%																								
ReadExpr: decimal point	Closed 100%																								

UniversalGBasis: sometimes gives (...)	Closed 100%
Add "exit" in addition to "ciao"	Closed 100%
New function: StdBasis (standard (...))	Closed 100%
New function: SymmetricPolys	Closed 100%
Manual: XML problem with html doc	Closed 100%
New function: multigraded BettiNumbers	Closed 100%
GroebnerFanIdeals: verbosity and (...)	Closed 100%
SEGV: Toric example from Kazuki (...)	Closed 100%
LaTeX(x^10) should use curly brackets	Closed 100%
New function: IdealOfGBasis	Closed 100%
Emacs UI: sending empty input from (...)	Closed 100%
Emacs UI: cocoa5-send-line skips (...)	Closed 100%
New function: SetGBasisAsGens [--> (...)]	Rejected 100%
Interpreter: limit range for ".." (...)	Closed 100%
Readline: cursor moves wrongly (...)	Closed 100%
Emacs: sent interrupt to CoCoA	Closed 100%
CoCoAManual: entry for SetVerbosityLevel/VerbosityLevel	Closed 100%
New function: IsCoprime	Closed 100%
New function: SectionalMatrix, (...)	Closed 100%
Error message from cocoa5lib to (...)	Closed 100%
CoCoA-5 no longer lists the external (...)	Closed 100%
NewPolyRing with user defined ordering (...)	Closed 100%
ReadExpr(P, string) and RingElem(P, (...))	Closed 100%
CoCoA-5 - CoCoA-5.3.0	CoCoA-5.3.0 100%
Type info in CoCoA-5 manual	Closed 100%
GUI compilation: GMP is not naturally (...)	Closed 100%
CoCoA5 GUI; failed build "wrong" (...)	Rejected 100%
GUI: fix DEFINES in makefile	Closed 100%
Emacs UI: strange string literal (...)	Closed 100%
Error message: I was expecting...	Closed 100%
Find out how to compile statically (...)	Closed 100%
Option to "fold" long lines?	Closed 100%
ImportByRef and ImportByValue behave (...)	Closed 100%
Emacs UI: comint buffer silently (...)	Closed 100%

CoCoA-5 distribution: tidying	Closed 100%
make htmldoc always recreates everything (...)	Closed 100%
Using protected variable names (...)	Closed 100%
Chebyshev polynomials	Closed 100%
CoCoA Manual: consistent spacing (...)	Closed 100%
CoCoAManual: add a page with some (...)	Closed 100%
Web site	Closed 100%
CoCoA-5 tests directory: cleaning	Rejected 100%
NewRingFp obsolescent; superseded (...)	Closed 100%
Release CoCoA-5.3.0	Closed 100%
Lexer: unclosed multi-line comment	Closed 100%
ExternalLibs return empty list	Closed 100%
PrimaryDecomposition with lex ordering	Closed 100%
system command	Closed 100%
Add "socket" devices	Closed 100%
CartesianProductList: case of just (...)	Closed 100%
John's visit Feb 2019	Closed 100%
New function: Read a string into (...)	Closed 100%
sleep function	Closed 100%
Manual page for CantStop	Closed 100%
ASCII function	Closed 100%
NewPolyRing and SymbolRange together (...)	Closed 100%
SortBy and SortedBy sometimes give (...)	Closed 100%
CartesianProductList: too slow	Closed 100%
Website: trouble with the world (...)	Closed 100%
len for RINGELEM ?!?	Closed 100%
assert-function for cocoa5	Closed 100%
NewPolyRing: allow symbols with (...)	Closed 100%
Manual looking for "?"	Rejected 100%
Linking problem	Closed 100%
THINGS TO DO IN GENOVA September (...)	Closed 100%
Wrong links on page about COCOA (...)	Closed 100%
Manual entry about reporting bugs?	Closed 100%
Matrix row reduction (rref)	Closed 100%

Clean CoCoA-5/tests directory	Closed 100%
RealRoots fails on $-x^2$	Closed 100%
SEGV when debugging is active	Closed 100%
Emacs UI: emacs does not recognize (...)	Closed 100%
Inconvenient PolyRingHom, PolyAlgebraHom	Closed 100%
Typevectors	Closed 100%
sylvester or SylvesterMat?	Closed 100%
ManExamples: some problems	Closed 100%
Clean out OBSOLESCENT	Rejected 100%
cocoa5 (launch) script: sleep time	Closed 100%
Emacs UI: should active input line (...)	Closed 100%
Emacs UI: start cocoa5 with system (...)	Closed 100%
CoCoA-5.3.0: release linked with (...)	Closed 100%
Improve manual for mod	Closed 100%
Add function power to CoCoA-5	Closed 100%
SEGV: should have been harmless	Closed 100%
NewPolyRing on MS Windows	Closed 100%
NewPolyRing and SymbolRange	Closed 100%
valgrind: reports 456byte leak	Closed 100%
IsIndetPosPower: behaviour and (...)	Closed 100%
John's visit Feb 2020	Closed 100%
CoCoA-5 test: radical too slow	Closed 100%
CoCoA-5 interpreter: idle/busy (...)	Closed 100%
Title of manual entry: tutorial (...)	Closed 100%
Parolacce e basi border	Closed 100%
Which commands should "terms" be (...)	Closed 100%
CoCoAManual - tex: error if syntax (...)	Closed 100%
IsDivisible also for INT	Closed 100%
IdealOfProjectivePoints and MinGens: (...)	Closed 100%
SEGV: error("")	Closed 100%
'UNCAUGHT UNKNOWN EXCEPTION' when (...)	Closed 100%
ABORT for unterminated string literal	Closed 100%
New function: LinearForm	Closed 100%
CoCoAInterpreter: executable size	Closed 100%

CoCoA-5 - CoCoA-5.0.2

Add "syntax" to online manual

CoCoA-5 Manual

Modify the packages so that -w3 (...)

Porting package "primary.cpkg" (...)

Sort entries in CoCoAHelp.xml and (...)

"<=" for ideals

Makefile problem with GUI on linux

Unhandled division by zero in FFp

SmoothFactor should allow large (...)

PP ordering bug

CoCoA-5 - CoCoA-5.0.3

source region

How to get the version number of (...)

GUI: problem with "--" comment

RealRoots should use IsRational

Packages: should exported functions (...)

Bad error mesg using operator ":"

Surprise return type for GCD of (...)

wordlist.txt generation

Conversion from bool to INT

JAA does not like the name IndetInd

May AsRAT produce an INT?

Multiplicity sometimes wrong

RegularityIndex <= 0

RealRootsApprox bombs

Dim/Multiplicity with Lex ordering (...)

add customization for --fullCoCoALibError (...)

MAT/INT ? MAT/RINGELEM ?

Banner for CoCoA-5

LCM(0,x)

malloc ERROR

Slow lex gbasis

indent prints strings without quotes

Unhandled CoCoALib error: mixed (...)
segmentation fault with function (...)
Builtin Normaliz functions not (...)
NBM: add to CoCoA-5
Makedependencies of CoCoA-5 fails (...)
Trouble on Linux: many CoCoA-5 (...)
Builtin Normaliz functions not (...)
Cyclotomic(106743) fails
test lecture-HF4
EmacsUI: indentation is wrong with (...)
Rename IndetsCalled to indets
Add CpuTime to C5 manual
(Multi)BlockMatrix
manual entry for "indent"
Mat(Module) should give error
Interpreter SEGV
basic_string::erase error in interpreter
C5 cannot compute derivative of (...)
CoCoA website: CoCoA-5.0.3 pages
CoCoA-5 - CoCoA-5.0.9
Elim(t, I)
Make the new fn CoefficientsWRT (...)
Hilbert series: global output rings (...)
Add I*f and f*I (RINGELEM and IDEAL)
BuiltinFunctions.C getting too (...)
HilbertBasis segv
port homog/homogenized for ideal (...)
Function for accessing the pointed (...)
implement "indent" for modules
CoCoAManual: display syntax first
Swap
Is it possible to have R^3 for (...)
CoCoA website: CoCoA-5.0.9 pages
Incr command/function

add function to compute minimal (...)
OnlineHelp: Problem with "><" (...)
Resurrect LinearSimplify
add IsFactorClosed
Add Frobbly functions to cocoa-5
add Value::from(factorization<..>)
add Value::from(HPSeries)
problem with ContentFreeFactor (...)
What does interreduce do?
Emacs UI: semicolon does not work (...)
lambda keyword
Not keyword/operator
EmacsUI: indentation is wrong sometimes (...)
intersection fails with zero ideal
Emacs UI: names of emacs fns
CoCoA-5.0.9 release (admin, overheads, (...))
CoCoA-5 - CoCoA-5.1.0 Easter14
Printing matrices: I/O unified (...)
Default reason for protected variables
CoCoAManual: Doc for new commands
TeX documentation for CoCoA-5
CoCoAManual: entries for operators
add modules and module operations
describe \$package
HilbertBasis: cocoa vs normaliz
Normaliz functions not available (...)
BuiltInFunctions: more flexible (...)
How to obtain an integer from a (...)
CoCoAManual: entry for "and", "or", (...)
Remove/replace the word "vector" (...)
New function: IsZeroDivisor
implement LF/DF for an ideal
write documentation for TgCone (...)
Emacs User Interface: Easier binding (...)

IsZero for matrix
Naming conventions: upper or lower (...)
Resurrect Relnotes()
New fn to increase max recursion (...)
FloatStr
Emacs UI: C-c C-e does not ignore (...)
CoCoA-5.0.3 Microsoft std::bad_alloc
Emacs UI: updating abbrev-table
Emacs UI: semicolon problems
Make man page for "It" easier to (...)
Emacs UI: cocoa5-close-block should (...)
Nested multiline comments
Record keyword
Multiline string literals - useful (...)
Eliminate package approx
Multiline comments -- obsolescent?
CoCoAManual: Doc for strings
Emacs UI: installation on Mac OS (...)
CoCoAManual: add page about creating (...)
New fn/object type: timer
submodule: minimize, minimized
SyzOfGens (CoCoA-5) does not have (...)
EmacsUI: lower case keywords
Naive version of resolution and (...)
New package: OBSOLESCEMENT
Remove float.cpkg5
CoCoAManual: improve part on data-types
sorted gives wrong answer sometimes
CoCoAManual: improve part on language
CoCoAManual: semi-automatic check (...)
Release: CoCoA-5.1.0
CoCoA-5 - CoCoA-5.1.1 Seoul14
How to get the compilation flags (...)
Function "Call"

CoCoAManual: obsolete entries in (...)
Function "insert": obsolescent
Misprints suggestions: Z --> ZZ
BringIn should allow reduction (...)
Anonymous symbols: should they (...)
Unescaped double quote inside superstring
NmzComputation: the powerful NormalizComputation (...)
Meaningful error for functions (...)
Distribution for linux
Package for Polynomial Algebra (...)
Bug in Radical (actually a RingHom (...)
How to test (automatically) a user (...)
BuiltinFunctions: General "OneLiner" (...)
Value::from makes BigIntValue::fromInt (...)
interpreter proposes no near misses (...)
Correct font for variable references (...)
Syzygy for modules: homogeneous (...)
MacOS version with static gcc libraries
Ungraceful behaviour: Source inside (...)
Subtle bug with CoeffEmbeddingHom
EMACS UI: fix windows splitting
Misuse of dot-dot operator
EMACS UI: trouble with sending (...)
CoCoAManual: New structure for (...)
Emacs UI: split horizontally instead (...)
Evaluate in other ring (was called (...)
CoCoAManual: Help page for porting (...)
Cleanup Hilbert package hp.cpkg5
incr/decr functions: to be used (...)
BuiltinFunctions: remove calls (...)
BuiltinFunctions: evalArgAsT1OrT2, (...)
Unify releases for Linux 32 and (...)
Interpreter: problem when calling (...)
ideal wants LIST of RINGELEM

Automatic conversion from RINGELEM (...)
C5 BuiltinFunctions.c fn RingElem
Port function MantissaAndExponent2
CoCoAManual: improve part on tagging
Emacs UI: unrecognized keywords (...)
Remove ZMOD type from CoCoAInterpreter
Online help: problem with "<>"
Emacs UI: coloured syntax in output (...)
Disallow juxtaposition for string (...)
Resume code for "gin" (generic (...)
CharPoly(MAT) and MinPoly(MAT) (...)
rename BigIntValue, IdealValue (...)
function "packages"
Resume CheckArgTypes
Release: CoCoA-5.1.1
Emacs UI; remove send-buffer?
Emacs UI: C-return for send-line (...)
Package "empty.cpkg5"
Resume MayerVietorisTreeN1
CoCoA-5 - CoCoA-5.1.2 summer 2015
CoCoA-5 emacs interface bug (minor): (...)
How to add a test for CoCoA-5 (CoCoAInterpreter)
BuiltinFunctions: evalArgAsLong
Approx pts preprocessing fns
Should SourceRegion echo the "region"?
RingOf for list
CoCoAManual: add entry summarising (...)
Initialization for CoCoA-5: file (...)
Duplicate fns: valuation and FactorMultiplicity
Manual: duplication in "see also" (...)
Printing rings with ID
package for subalgebras
Release: CoCoA-5.1.2
New function: RandomSubset

<p>Symbol in the coeff ring</p> <p>GenRepr fails if there are zero (...)</p> <p>Flag to enable/disable printing (...)</p> <p>Rename adjoint to adjugate???</p> <p>Remove keyword "weights"?</p> <p>Emacs UI: wrong name after auto-inserting (...)</p> <p>Emacs UI: set back "cocoa5-executable" (...)</p> <p>rename MinGensGeneral?</p> <p>meaningful error for IDEAL \leq IDEAL</p> <p>CoCoAManual: improve part on RINGHOM</p> <p>Readline: consider creating a textual (...)</p> <p>TopLevel cannot "import" a package (...)</p> <p>Primary Decomposition in CoCoA-5: (...)</p> <p>Primary Decomposition in CoCoA-5.1.2: (...)</p> <p>Readline: avoid printing out READLINE (...)</p> <p>CoCoA-5 - CoCoA-5.1.3/4 Jan 2016</p> <p>Added 3 times defn of isblank fn</p> <p>odd and even numbers for snapshots/official (...)</p> <p>Interpreter interrupt delayed confusingly</p> <p>Release: CoCoA-5.1.3 and CoCoA-5.1.4</p> <p>MacOSX: many warnings with compiler (...)</p> <p>CoCoA-5 test (SourceAnna); problem (...)</p> <p>Emacs UI: problems with packages (...)</p> <p>Which external libs are present?</p> <p>Primary Decomposition in CoCoA-5.1.3: (...)</p> <p>description of a RING</p> <p>Evaluating a QuasiPol</p> <p>CoCoA version number: copy CoCoALib</p> <p>Rename Log to exponents</p> <p>Rename LogToTerm to MakeTerm</p> <p>New fns: MaxBy and MinBy to find (...)</p> <p>BuiltinFunctions -- getting too (...)</p> <p>IsMaximal, IsPrimary for IDEAL (...)</p> <p>CoCoA-5 - CoCoA-5.2.2</p>	
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CoCoA-5 (partial) releases: make (...)
Linking problems in CoCoA-5 GUI
CoCoA website: download pages and (...)
Compiler g++ 4.2.1 (clang-503.0.40) (...)
Release: CoCoA-5.2.2
Error column indicator misaligned (...)
Interpreter: Avoid outputting an (...)
C5 GUI: slow to close
use poly ring with many variables (...)
Rename Fact to factorial?
Check all fns in packages work (...)
SqFreeFactor: small (or big) bug?
Makefile: install target for cocoa5
CoCoAManual for "all cocoa commands"
Random seed fn
Rename minimalized(l) into IdealOfMinGens(l)?
CoCoA Manual: search should ignore (...)
CoCoAManual for verbosity: how (...)
IsInRadical: fragile code
CoCoAManual: duplication (2 pages (...)
describe ring: add final newline
IsRadical bug?
"Randomize" and "Randomized" obsolete?
RelNotes: current version or all (...)
CoCoAManual: entry for radical
intersect: problem with zero generators
New function: PrevPrime
EmacsUI: get error "wrong-type-argument" (...)
ExternalLib-MathSAT: (first) prototype (...)
Design issues for discussion in (...)
TimeOut not working as hoped/expected
PrimaryDecomposition0: says not (...)
Emacs UI can be slow in M\$ Windows
Mailing list for CoCoAUsers

<p>Should "minimalize" be obsolescent? subalgebra package obsolete? HomomorphismFns.cpkg5 no longer (...) Radical bug Latex: ideal Radical problems ImplicitModular: too many bad primes NewZZmod: port to CoCoA-5</p> <p>CoCoA-5 - CoCoA-5.2.4</p> <p>Unhelpful error messages when SmallExponent_t (...) ApproxSolve very slow on this example CommonDenom: for polys and lists? (makefile) New "clean" target which (...) Some other examples for 0-dim radical New fn: RandomLinearForm Release CoCoA-5.2.4 Release: problems with sed FactorAlgExt Manual: loading manual entries (...) MinSubsetOfGens: problem with generators (...) Product of empty list: manual and (...) HilbertBasisKer: unhelpful error (...) HilbertBasisKer: SEGV (again) ApproxSolve: log(0) on some examples New package: poset New package: arrangements</p> <p>CoCoA-5 - CoCoA-5.3.2</p> <p>cocoa5 script for releases EmacsUI: sending line with "7" (...) Release CoCoA-5.3.2</p> <p>CoCoA-5 - CoCoA-5.4.0</p> <p>Font for parameters in manual CoCoALib BuildInfo vs CoCoA-5 VersionInfo Describe should indicate package (...)</p>	
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Manual for CoCoAManual/CoCoAHelp.xml
Evaluate in ring operator (was (...)
Interpreter: is it possible to (...)
Interpreter error message: "for" (...)
Package protected variables should (...)
Distinguish indets from symbols (...)
Undesirable consequence of automatic (...)
Ring constructor: allow empty range (...)
Builtin fn makes unnecessary copy (...)
Local variables hiding out ones (...)
External libs: interrupting not (...)
RationalSolve: wrongly complains (...)
CoCoA-5 prompt for incomplete input
Release for MacOS: compilation (...)
Readline: does not recognize interrupts
CoCoAManual: searching for ?? mat (...)
ConcatList or ConcatLists
package of a function --> of an (...)
Rename HilbertBasisKer into LinKerHilbertBasis?
Package exported function: wrong (...)
CoCoAManual: ensure that LaTeX (...)
RationalSolve: gives "Error: must (...)
RationalSolve: gives wrong answer
Documentation for how to write (...)
RationalSolve: use MinPolyQuot (...)
Groebner Bases over ZZ
Better err mesg for easy typo in (...)
CoCoA-5 tests may fail even if (...)
How can user find the indent command?
CoCoA-5 header files: should use (...)
ApproxSolve: another slow example
Website: download page for CoCoA-4 (...)
Crashes if CoCoAHelp.xml is missing
Website: hide/delete all the CoCoA-4 (...)

Tagged values (Hilbert Series)
Emacs UI: font size
Juxtaposition of string literals
Illegal instruction
Manual entry for RandomLinearForm
CoCoA Manual: make search keys (...)
In a release: which files inside (...)
Manual entries for mod and div
Automatic mapping for multiplication?
Release CoCoA-5.4.0
HilbertBasis: clarify
CoCoA release for linux: CoCoAInterpreter: (...)
EOF for OpenIFile
Unhelpful error message for package (...)
Automatic ring mapping in assignment?
Package exporting nothing?
Export many names or just one?
testing for syntax errors
OnlineHelp: XMLFileName
EmacsUI: fix "Go to Error C-c C-p"
Remove XMLFileName from Main.C
wordlist without OBSOLETE entries?
RingElems with empty input
Package with unexpected EOF
Cocoa crashes when calling RingElems
substring function
Replace BOOST_FOREACH by new C++14 (...)
wrong SystemCommand exit value
CoCoA Manual: homogenize obsolete/obsolescent (...)
EmacsUI: help/manual for selected (...)