

CoCoA-5

	2018-7				2018-8				2018-9				2018-10				2018-11				2018-12							
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CoCoA																												
CoCoA-5																												
intersection																												
Hermite normal form																												
RingID: remove this function?																												
Profiling with clang																												
CanonicalHom																												
Manual of functions vs ManExamples																												
CoCoA-5 releases on redmine																												
CoCoA-5 - CoCoA-5.4.2																												
Automatic mapping between (some) (...)																												
theValue makes copy																												
Elim ordering and matrix ordering (...)																												
C++11 compatibility questions																												
OpenOFile																												
Functions throwing error even though (...)																												
Janet Bases: port function into (...)																												
CoCoA-5 Projects for students (e.g. (...)																												
Installation instructions (on website)																												
port SmithNormalForm (CoCoA-4)package (...)																												
EmacsUI Source/SourceRegion produce (...)																												
Emacs UI; remove cruft																												
Eliminate package BinRepr																												
Review utility of package IO																												
CoCoAManual: improve part on input/output																												
Gaussian Elimination																												
Prototype package for Linear Commutative (...)																												
Variable It: assign before or after (...)																												

CoCoA

Speed of some Normaliz calls (NmzComputation)

NotBuiltin.cpkg5: indent for MODULE

Referring to indets with multiple (...)

Emacs UI: send-file (C-c C-f) should (...)

Implicit: make easier to use with (...)

Add TUTORIALs to online manual

Clean up CoCoALibSupplement

Function "ideal" evaluates the (...)

"universal denominator" (related (...))

Microsoft (Windows 10, maybe other (...))

Separators for elements of a list

LinKerBasis is user-unfriendly

CoCoAManual: AffHilbertFn accepts (...)

Eigenvectors: inconsistent return (...)

IsInRadical: for monomial ideals

Use Flatpak and/or Snap on Linux?

RealRoots: rational roots (but (...))

MinPoly for matrix: fix in cocoalib (...)

SLUG: filling an array

append is slow

ker: for PolyAlgHom from $QQ[x,y,z]$ (...)

GDPR: website, mailing list

MSatLinSolve: req minor improvements

Online manual entry for RingElem (...)

ShapeLemma: no manual entry

Split BuiltinFunctions-CoCoALib.C (...)

Interpreter: fns which accept INT (...)

Vim Plugin for CoCoA

Automatic conversion from RINGELEM (...)

CoCoA-5 manual: incorrect empty (...)

CoCoA manual: entry for operators, (...)

Package Edgeldeal not documented

New function: find ?

GFan also for Microsoft?

GUI with Qt5

thmproving package

Manual entry for NewPolyRing

MakeTerm: implement in C++

Stack overflow reading long list (...)

HTML manual: search using keywords?

Emacs UI: cocoa5-shell-check-process (...)

Disable readline if input is redirected

Surprising parser error: INT+DOT+IDENTIFIER

Automatic way to produce statically (...)

Use symbolic links for release (...)

Filenames in release CoCoAManual/html (...)

IntersectList or IntersectionList

Get indexed indets from a polyring

Website: link to JSAG?

HilbertSeries: make into proper (...)

Lin alg with polys

Documentation for making ring with (...)

Emacs UI: indentation in a package

Use "special" names for variables (...)

SystemCommand in Microsoft version

More flexible ring creation syntax (...)

Initial ring

Interpreter fn Value::from can (...)

RingElem and IndetSymbols not compatible

Install CoCoA-5 on MacOS-10.15+

New functions: argmin, argmax

foreach with ref to list entry?

CoCoA coding conventions for parser/interpreter?

CoeffOfTerm: in CoCoALibSupplement

Man page for UniversalGBasis

Add sagbi package

Emacs: avoid making buffer visible (...)

subst: not checking args properly

DivAlg slower than NR
elim for modules
Geometrical theorem proving package
What does rad do?
RMap and image: obsolescent?
ApproxSolveTF
Slow sqfr: rad(f)
New fn ElapsedTimeFrom?
Unhelpful behaviour in "compatibility (...)
SqFreeFactor crashes over non-perfect (...)
Doc for the various Builtin files
EmacsUI: annoying colours
NewMat: should be obsolescent?
Use filesystem::path instead of (...)
Unexpected or unhelpful error using (...)
Missing/Incomplete manual entries
MinSubsetOfGens sometimes very (...)
RealRoots: crashes after interrupting
Allow user to choose whether to (...)
ApproxSolve and RationalSolve take (...)
Potentially confusing prompt: waiting (...)
Jordan Normal Form?
GCDList not documented
Refactor C++ impl in OnlineHelp
BuiltinFunctions-GFan includes (...)
Should Starting be case-insensitive?
Manual entry for random (see also)
Release CoCoA 5.4.2
Preliminary packages
Linux: just 1 executable, should (...)
Documentation/Manual for HilbertFn
ManExamples target: need t reset (...)
NewPolyRing with indices -- better (...)
Quitting can be slow

Continued fraction: arg type RAT (...)
GenReprCompute: SERIOUS ERROR
Strange bug: demo-Osaka2015
Makefile problem: needlessly relinks (...)
CoCoA-5 - CoCoA-5.4.4
Approximate BuchbergerMoeller: (...)
CoCoAManual: General part of the (...)
Emacs UI: keywords in multiline (...)
Manual: remove old stuff about (...)
Revive old CoCoA4 package called (...)
Emacs UI: slow with long lines
Poor memory management?
SLUG: RationalSolve slow and stupid
Add CoCoA5 function NmzHilbertBasisKer
BuiltinOneLiners -- less precise (...)
CantStop playing CantStop
Refine Poset impl & doc
Verbosity level in CoCoA5
EvalPolyAtMat
Make it easy to run the tests in (...)
Better error mesg for 1.2.3.4?
CoCoA web site "analytics"
Difference between seealso and (...)
Add CoCoA-5 syntax: syz(<F,> list (...)
New function ModuleElems? (like (...)
CoCoA-5 - CoCoA-5.?.?
(short) manual for emacs interface
GUI: open file "with C5"
Error/warning if fn-proc is neither (...)
sort is too slow
BringIn should map only the indets (...)
rethrow in Try .. UponError .. (...)
I:f (IDEAL and RINGELEM) -- (...)
Qt GUI: Make better distinction (...)

GUI: Add an edit menu to the top (...)
C-c C-p in emacs goes to wrong (...)
Negate LIST, MAT,...
Template for unaryMinus?
InputForm for output readable as (...)
Appunti per (eventuale) tesi triennale (...)
More curiously slow code -- squaring (...)
Add LucasTest to cocoa5?
TeXmacs interface
--fullCoCoALibError prints too (...)
Which functions are defined in (...)
Documentation for Parser/Interpreter
GUI: message "running.." (close (...)
system variables
Colon operator, 2nd arg
allow single function call in "use" (...)
Hilbert: Redesign hp.cpkg5 and (...)
port optimized resolutions to CoCoA-5
intersection (all lower case)
Allow user to give a name to a (...)
Bug or feature for protected name? (...)
Emacs UI: Name of emacs init file
Emacs UI: very slow when input (...)
Assignment to protected variable
Port function NewSymbol/NewSymbols (...)
Automatic conversion from INT (or (...)
interpolate
Emacs UI: indentation is wrong (...)
Eliminate keyword Alias?
gcd too slow for large degree univariate (...)
Unique copies of rings in CoCoA-5
Warning about variable hiding another (...)
ScalarProduct accepts MatrixRow?
Cleaning: Cruft in CoCoA-5 packages

New C5 fn for adjusting the warning (...)
Toric: resurrect function TestSet (...)
New operators: += -= *= /=
Resurrect MakeCheck()
GUI: better name for the graphical (...)
efficient subalgebras
Interpreter.C: remove calls to (...)
GUI: qutting provokes Imminent (...)
Add functions based on MayerVietorisTree
Output Betti numbers
Windows-GUI: compilation with MinGW
New operations? ScalarProduct(MODULELEM,LIST), (...)
Unique copies of free modules?
Emacs UI: use "warning colour" (...)
MakeSet can be very slow
eval: in which ring should the (...)
use command, ring syntax, RingOf
Ring ID: separate index values (...)
Emacs UI: endfunc does not indent (...)
Emacs UI: C-c C-\ copies line cursor (...)
NUL char in input terminates CoCoA-5
Emacs UI: swapped splitting
Credits to CoCoA-5 contributors
Add more operations for modules
External Libs: missing dependencies (...)
External libs: specifying I/O streams (...)
Primary Decomposition in CoCoA-5
Elementary transcendental functions (...)
IsDefined does not follow reference (...)
New function: LeastDegPolynomial (...)
CoCoA type "cone"
Emacs UI: send-region and send-line (...)
floor, ceil, and NearestInt for (...)
append has bad complexity

Interpreter is too slow reading (...)
subst: allowed also for indets (...)
LOGAR: make CoCoA-5 easier to use
Escaped newline to allow a long (...)
When is a semicolon needed to end (...)
use command: unhelpful error if (...)
CallOnGroebnerFanIdeals: better (...)
Empty matrix: warning, error, or (...)
ciao, exit, quit can be used not (...)
Improve coverage of CoCoA-5 tests
Managing credits
New function: IdealAndSeparatorsOfPoints
New function: MakeMultiset?
CoeffSize: function to measure (...)
GroebnerFanIdeals: order matrices (...)
init file obligatory?
New function: RingQQi()? extension (...)
New syntax for creating poly rings?
External dependencies for building
Example of slow LEX GBasis computation
ScalarProduct: exact defn and manual (...)
Improve error message when args (...)
CoCoAManual: improved search, or (...)
PolyRing constructor: NewOrdvArith (...)
EmacsUI: interrupt copies line (...)
GUI: bugs and slugs
CoCoA Online: install (using InteractiveShell)
Port RowMat, ColMat, MatByRows,... (...)
Generic Timeout for CoCoA-5?
Latex: matrix
New function: gin for algebraic (...)
CoCoA should read unicode
Allow Interruption of printing?
incr and decr are slow

<p>New Fn: make a homogeneous list (...) LinearSimplify: sometimes not optimal Matrixrow-functions Create a directory Emacs UI: open manual pages in (...) Clean up package points.cpkg User forum? Windows: Qt-Gui does not link correctly Daft slug</p>	
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