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CoCoA				•	-	•		•	•	-	•			•		•									•		
Web site: mailto link for bugs, suggestions ()																											
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New ApCoCoA UI																											
Interactive window and history mechanism																											
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How to connect GUI to cocoa5 executable?																											
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CoCoA-5 - CoCoA-5.4.2																											
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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 ()	
Speed of some Normaliz calls (NmzComputation	1)
NotBuiltin.cpkg5: indent for MODULE	
Referring to indets with multiple ()	
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 ()
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
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/interpret

(CoeffOfTerm: in CoCoALibSupplement
I	Man page for UniversalGBasis
1	Add sagbi package
I	Emacs: avoid making buffer visible ()
:	subst: not checking args properly
I	DivAlg slower than NR
(elim for modules
(Geometrical theorem proving package
I	RMap and image: obsolescent?
	ApproxSolveTF
9	Slow sqfr: rad(f)
I	New fn ElapsedTimeFrom?
:	SqFreeFactor crashes over non-perfect ()
	Doc for the various BuiltIn files
I	EmacsUI: annoying colours
I	NewMat: should be obsolescent?
I	Use filesystem::path instead of ()
	Missing/Incomplete manual entries
I	MinSubsetOfGens sometimes very ()
I	RealRoots: crashes after interrupting
1	Allow user to choose whether to ()
1	ApproxSolve and RationalSolve take ()
I	Potentially confusing prompt: waiting ()
	Jordan Normal Form?
(GCDList not documented
I	Refactor C++ impl in OnlineHelp
	BuiltinFunctions-GFan includes ()
ę	Should Starting be case-insensitive?
	Manual entry for random (see also)
I	Release CoCoA 5.4.2
I	Preliminary packages
I	Linux: just 1 executable, should ()
I	Documentation/Manual for HilbertFn
I	ManExamples target: need to reset ()

NewPolyRing with indices - better () Continued fraction: arg type RAT () GenReprCompute: SERIOUS ERROR Do not use random inside tests!! Makefile problem: needlessly relinks () CocCoA-5 - CocCoA-5.4.4 Approximate BuchbergerMoeller: () CocCoAmal:: General part of the () Emacs UI: keywords in multiline () Emacs UI: send-file (Co-C-1) should () Manual: renove old stuft about () Manual: renove old stuft about () Manual: renove old stuft about () Poor memove old stuft about () Busible readline If input is redirected SLUG: RationalStore slow and stupid Add CoCoAf function NmxHubertBasisFor BuiltinOneLiners - less precise () CatStop playing CanStop Unexpected or undelpful error using () Refine PoseI impl & doc Verbosity level in CoCoA5 EvalPolyAtMat Make it easy to run the tests in () Better error mesg for 1.2.3.4? CoCoA-s - coCoA-S.? Cishtma maula for emacs interface GU: opon lie "with C5" Error-warning if In-proc is neither ()		
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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 ()
CallOnGroebnerFanldeals: 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 ()
GroebnerFanldeals: 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	
New Fn: make a homogeneous list ()	
LinearSimplify: somtimes 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	
CoCoALib	CoCoALib
CoCoALib - CoCoALib-0.99880	
Matrix equation solving; linear ()	
Improve threadsafety	
Matrix equation solving: LinKer	
Printing polynomials - spaces between ()	
Play with GIT	
Error: ERR::NotNonZero instead ()	
Elim(vector <long>) as PPOrderingCtor</long>	
Syzygy for modules: non-homogeneous ()	
Error codes: use same code for ()	
LongRange: in which file should ()	
Impl small non-prime finite fields ()	
DistrMPolyClean does not use MemPool ()	
MatrixOrderingMod32749Impl: test ()	
Update normaliz interface?	
Better errors: give supplementary ()	
SLUG: elimination	
Test whether a symbol is in a ring	
DivMask: extend interface?	
Implement "elim" in CoCoALib	

	Cleanup MinPoly code
	implicit, ImplicitHypersurface: ()
	Redesign ideals
	LinSolve for matrices over FFp
	strict enum types: C++11 extension
	New function: cardinality of finite ()
	FlagManager for bool/bool3 flags
	MachineInt or long for args which ()
	Separate configure scripts for ()
	MachineInt: change semantics?
	IsRadical for ideal?
	New function: multiplicity and ()
	Improve saturate
	Slug: Polynomial ring contructor ()
(CoCoALib - CoCoALib-0.99900
	Redmine Administration
	Design new errors using inheritance
	Which names to use? Intersection/saturation
	New function: IdealWithIncrementalGBasis(I,
	Documentation: translation table
(CoCoALib - CoCoALib-1.0
	Sort out RingElem, RefRingElem, ()
	List of all functions in CoCoALib
	printing polynomials
	keywords in documentation
	Cleanup header for ring classes ()
	Error Codes
	automatic creation of all function ()
	Introduce PartialHom
	Ideals of polynomials
	LT over QQ: surprisingly slow
	IdealOfPoints with generic coeffs
	New datastructures directory
	Convert DUPFF code to C++

Better GCD
Design problem in ideals
Convenience ring ctors and homs
Buchberger-Moeller (parent task)
Buchberger-Moeller: fast modular ()
Buchberger-Moeller: impl via ()
Buchberger-Moeller: input conversions
Makefile dependencies
RingOf rather than owner? (and ()
Iterated CanonicalHom
GCD normalization (e.g. monic)
Convert old "task table" into redmine
IsStdGraded: add for PPOrdering, ()
PPWithMask needs checking
Example for change of coordinates ()
HilbertBasis from Normaliz: full-lattice ()
Generator for random ring elements
Documentation for QBGenerator needs ()
No test for QBGenerator
Approx QIR
Transcribe C4 code for GCD in QQ[x]
Multivariate lifting
Move the various <matrix>::mySetEntry ()</matrix>
Forward declarations
Eliminate class RefPPMonoidElem?
Store unique copy of FF(p) in GlobalManager
Global setting: to use IsProbPrime ()
PrimeField new fn?
Modules design: brainstorming
Compilation on M\$Windows: Visual ()
FreeModule: unique copy?
Add doc for ApproxPts2
submodule constructor different ()
C++ nasty surprises

Why is DMPI slower than DMPClean?	
Module homs	
Missing documentation and tests ()	
CoCoAServer: what future, what ()	
Resolution/morse: integrate Mario (.)
add resolution data type	
implement algorithm(s) for resolution	s
PPMonoidElemAlias: redesign PPMor	noidElem ()
add myHilbertSeries member field (.)
add myJBMill member field to ideal	
NewFreeModule of dimension 0	
Minimal syzygies (optimized impleme	ntation)
Allow user to give a name to a ()	
Error names and error messages ()	
Semantics of IsPrintedWithMinus	
Improve UPoly eval at BigRat for ()	
MemPool: order free blocks?	
Polynomial multiplication (product ()
Port RealRoots to C++	
Eigenvectors	
Which sets of generators in an ()	
LinearSimplify: port to CoCoALib	
Unique copies of rings smart ()	
Clang: automatic bug finding	
Documentation: write doc for RingDe	nseUPolyClean
Quick/correct flag for bool3 fns	
Fn to "flatten" muliple polynomial ()
Make squarefreefactor work in multip	le ()
FloatStr uses too much memory	
Functions to clean up a factorization	
elim using RingTwinFloat triggers ()
add myResolution member field ()	
Reconsider overloaded virtual mem ()
Subrings	

Temporary file for experimentation
FloatApprox for TwinFloat values?
Documentation for ReductionCog
Allow use of RingElem instead of ()
Split SparsePolyRing.H into two ()
Investigate using cmake for configuration
New function for printing with ()
Implement gin (generic initial ()
Problem with template instantiation ()
configure: check all libraries ()
Redesign CRTMill
Wikipedia
Gaussian integer and rationals ()
Complex twin-floats
Shadow CoCoA namespace to help ()
What is test-Dynamic1.C
Buchberger-Moeller: add option ()
Unique copies of free modules?
Optimized algorithms for implicitization ()
Laurent polynomials
Integrate Janet/Pommaret basis ()
factor: multivariate + finite characteristic
Matrix determinant over multivariate ()
Credits to CoCoALib contributors
Accumulator (like a geobucket)
MemPool: make it easier to get ()
PPMonoid: add fn to check for overflow ()
Use DivMask inside QBGenerator
myAddMul in poly rings
PolyAlgebraHom (PolyRingHom) evaluate ()
Fault tolerant rational reconstruction: ()
Remove cruft from test files
Add more operations between modules ()
Example database: Slow ideal equality ()

 Noncommutative algebra "of solvable () Betti numbers, betti diagram Extend homomorphism to polynomial () Addition of sparse (multivariate) () View PP exponent vector (and order () Problem with GBasis in tower of () Investigate using Boost.build instead () configure: have option to say to () GlobalManager: initialization compatible () ExternalLib-CDD: (needed by GFan) CoCoALib cone PPMonoid with 1 extra "exponent"? CRTMill::myAddInfo accept modulus () Makefile: problem not seeing when () GroebnerFan/ExternalLib-GFan: improve () threadsafety: Scott Meyers's advice () finite fields: global register () Remove refcounts from RingElem? No doc for DistrMPolyInIFpPP Clean code for DistrMPolyClean SmallFpImpl: make it faster vector of "indets" in each PPMonoid? PPOrdering: use it to compute WDeg? Alg Extn by non-zero dim ideal FastCmp for degree useful? PPMonoid pseudo-ctor without explicit () GenRepr in CoCoALib? F5 with 3 args? Sparse matrices MachineInt: function for checking () Generalize grading matrix UIBC: need include file in RingWeyI.C Make Mario's new code threadsafe factor is very slow on some simple () 	
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UIBC: need include file in RingWeyl.C Make Mario's new code threadsafe	
Make Mario's new code threadsafe	
	factor is very slow on some simple ()

Differential algebra
SparsePolyIter: make more compatible ()
GINV: alex basis
NewPolyRing: tidy up the many different ()
PPMonoidSparse: comparisons are ()
IsIrred: correct design?
SmallFpImpI: different repr for ()
bool3: add some logical operations?
factor: too slow on largish multivariate ()
Impl faster multiplication for ()
DistrMPolyInIPP::myPushFront and ()
IsIrred3: fast 3-way irred test ()
mylsEqual, myCmp: direct comparisons ()
SmallFpDouble: which impl of InvMod ()
External libraries: keep copy of ()
Read input from SymbolicData database
New function: quorem for univariate ()
Hilbert Driven GBasis
Design GBMill
Fn to read symbol range (SymbolRange)
Documentation: check layout of ()
Printing TwinFloat as (rational) ()
LinDepMill: Mill for linear dependencies
Slow NF example
Weights in ElimMat?
ex-PolyIterator
QIR/RealRootRefine: improve behaviour ()
GFan: require version newer than ()
GCD: add special case if args are ()
Poly ring homomorphism to change ()