CoCoALib

		2024-4				2024-5				2024-6				2024-7				2024-8				2024-9		
	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39

CoCoA

  CoCoALib — CoCoALib

    Documentation review by Caleo

    test-Normaliz1.C

    C++ integer shift operators

    CoCoALib - CoCoALib-0.99550 spring 2017 — CoCoALib-0.99550 spring 2017 100%

      libcocoa sometimes built without (...) — Closed 100%

      XelMat, StdDegRevLexMat, ... should (...) — Closed 100%

      Release: CoCoALib-0.99550 (together (...) — Closed 100%

      Use symbolic links for external (...) — Closed 100%

      Review design of ConstMatrixView — Closed 100%

      In test files: when is assert.H (...) — Closed 100%

      test-OrderedRing: activate or eliminate? — Closed 100%

      Rename file PPMonoidEvZZ — Closed 100%

      RingDistrMPolyInlFpPPImpl::mySummandPool (...) — Closed 100%

      New type for "constant" matrices? — Closed 100%

      DiagMat: mySetEntry checks the (...) — Rejected 100%

      PPOrdering: matrix ordering, what (...) — Closed 100%

      GlobalManager: Imminent disaster (...) — Closed 100%

      Should ElimMat return a ConstMatrix — Closed 100%

      NewPositiveMat also for matrices (...) — Closed 100%

      NearestInt can needlessly throw (...) — Closed 100%

      MantissaAndExponent2 for twin-float — Closed 100%

      floor for TwinFloat can produce (...) — Closed 100%

      Twin-float: comparisons and equality (...) — Closed 100%

      Check impl of RingTwinFloatImpl::myIsRational — Closed 100%

      Assignment of rings (esp. derived (...) — Closed 100%

      Compilation Error: C++11 and old (...) — Closed 100%

configure script: give summary (...)	**Closed 100%**
NumDigits: sometimes gives wrong (...)	**Closed 100%**
IsMaximal, IsPrimary for IDEAL (...)	**Closed 100%**
New function: FrobeniusMat	**Closed 100%**
BigRat: read from a string in "decimal" (...)	**Closed 100%**
GBasis verbose mode	**Closed 100%**
ReadExpr: cannot handle exponent (...)	**Closed 100%**
ReadExpr: misreads 2/3^4	**Closed 100%**
New function: IsSqFree	**Closed 100%**
new file for old functions: obsolescent.C	**Closed 100%**
RandomUnimodularMat - random unimodular (...)	**Closed 100%**
determinant: fails for 0x0 matrix (...)	**Closed 100%**
New function: HasGBasis	**Closed 100%**
New function: ReducedGBasis	**Closed 100%**
CheckForInterrupt does not work (...)	**Closed 100%**
Which ostream for verbose/obsolescent (...)	**Closed 100%**
In scripts: use portable test for (...)	**Closed 100%**
square function	**Closed 100%**
Bruns SEGV: SparsePolyIter/DMPI (...)	**Closed 100%**
ReducedGBasis for RingWeyl (and (...)	**Closed 100%**
CPP flags in installed library	**Closed 100%**
LogStream: stream for log output	**Closed 100%**
Several tests fail when threadsafe-hack (...)	**Closed 100%**
ExternalLibs: function for getting (...)	**Closed 100%**

CoCoALib - CoCoALib-0.9950

    MachineInteger --> MachineInt

    Rename NumTheory and NumTheoryQQ

    rename RingQ, RingZ --> RingQQ, (...)

    Saturation

    DMPI vs DMPII is slower than expected

    Clean up DivMask and doc

    ordering matrices with rational (...)

CoCoALib - CoCoALib-0.9951

    SwapRows, Cols

Add links to examples in documentation

matrix - MatrixView

Index page for html documentation

QuotientRing problem

Shorter simpler names for some (...)

gcd: multivariate over non-prime (...)

Brand new symbol(s)

Separate ThreadsafeCounter from (...)

Cleanup doc for rings

Integer operations

CoCoALib - CoCoALib-0.9952

p-th root

CFApprox: division by zero

Normaliz: "double" cone for speed (...)

NBM: add SparsePolyRing as argument (...)

Better RingElems

Leading form

AreMonomials

Rings: default ctor & assignment

Review the utility of RefRingElem

CoCoALib - CoCoALib-0.9953

polynomial coefficient extraction (...)

implement creation of a PPMonoidElement (...)

Rename PPMonoidEvZZ?

Polynomial content

Names for random streams

MachineInt or long as fn arg type (...)

CoCoA4io

Porting "IdealOfPoints"

change long args in matrices into (...)

Revise interface to SmallFpImpl (...)

Doc & example for convert

IsHomog: should it throw an error (...)

Add homog (homogenized) for ideal

Exponent range (in power products)

    PPMonoids: check for exponent overflow (...)

    Rational approximation

    Add fault tolerant rational reconstruction (...)

    PPMonoid pseudo-ctors without symbol (...)

    Equality of (sub)modules

    DenseUPolyClean uses size_t

    "configure" does not set BOOST (...)

    IdealOfPoints: gens are actually (...)

    New function BinRepr (was BinExp, (...)

    Store unique copy of QQ[t_1..t_n] (...)

CoCoALib - CoCoALib-0.99531

    Squarefree factorization - Alessio (...)

    Squarefree factorization - overhead

    Squarefree factorization - generic (...)

    Squarefree factorization - for (...)

        Squarefree factorization - (...)

            Squarefree factorization (...)

            Squarefree factorization (...)

        Squarefree factorization - (...)

        Squarefree factorization - (...)

    Buchberger-Moeller: generic impl

    add CoeffVecWRT to cocoalib

    Colon of zero ideal fails (zero-divisors)

    problem loading library.H (parallel (...)

CoCoALib - CoCoALib-0.99532

    CoCoA website: update web page (...)

    Squarefree factorization

        Squarefree factorization - (...)

    Conversion functions -- documentation

    OrdvArith documentation needs rewriting

    Function to get the Hilbert Polynomial (...)

    ReadExpr: input polynomials in (...)

    myDeriv for RingDenseUPolyClean (...)

AsINT and AsRAT -- ConvertTo<BigInt> (...)
Update/Improve geobucket documentation
IsDivisible for RingElem with nice (...)
NewZZmod and NewRingFp: improve (...)
LongRange(a,b) returning vector (...)
function (CoCoALib) for minimal (...)
Check consistency of template class (...)
RingElem ctor from mpz_t (from (...)
design of factorization template (...)
OrdvArith: use of a single buffer (...)
New fn: NumPartitions
ex-Normaliz2-overflow.in too long (...)
ConvertTo with optional arg to (...)
Zero to the power zero, 0^0
ideal: minimalize or minimalized?
CoCoA website: CoCoALib-0.99532

CoCoALib - CoCoALib-0.99533 Easter14
Coefficient extraction
implement "binomial" (coefficient) (...)
BigInt - NumTheory
Rename MatrixViews
ZeroMat & FilledMat
Recognizing finite fields
Automatic conversion from bool3 (...)
How to return a Hilbert Series (...)
Notes for adding/removing files (...)
DynamicBitset example using LPP
Valgrind: keep CoCoALib at 0 memory (...)
Remove denominators: QQ[x] -> ZZ[x] (...)
Problems with DenseMatImpl::myResize
IsZeroDivisor
add DeleteCol, DeleteRow
IsDivisible -- exact semantics?
deg(F,X) instead of MaxExponent(F,X) (...)

Rename MatrixArith to MatrixOperations

PPMonoidOv is not threadsafe

factorization: public data fields, (...)

Use -fopenmp flag when compiling (...)

NewPolyRing_DMPI has no constructor (...)

make check in examples/ directory (...)

IsIntegralDomain, IamIntegralDomain3

Renaming: SqfreeFactor to SqFreeFactor

SyzOfGens (CoCoALib): fix shifts

Rename file TmpFactor to factor

MaxSquarableInteger gives wrong (...)

Fn to test if an integer is a power (...)

Release: CoCoALib-0.99533

Convert BigInt/BigRat to string

IO: move GlobalInput etc to CoCoA (...)

Compilation problem in TmpMorsePaths.C

Progress reporter

CoCoALib/io.H

CoCoALib - CoCoALib-0.99534 Seoul14

polynomial coefficient extraction (...)

cleanup doc for matrix, MatrixViews, (...)

MatByRows, MatByCols

Repeated rows/cols in submat

Usefulness of ring casting fns (...)

FractionField -- only of TrueGCDDomain?

CoCoALib normaliz interface

Automatic mapping of RingElems

Documentation for tmp.H (utils (...)

Compilation problem with "degree.H" (...)

Module ordering and grading (and (...)

ordering and grading (weights) (...)

Remove AsPolyRing etc?

Documentation for adding functions (...)

Release: CoCoALib-0.99534

CoCoALib-Normaliz interface: cannot (...)
Valid symbol heads
CmpAbs for RingElem
Hilbert crashes with > 100 indeterminates
Example for PPVector: ex-PPVector
BaseRing for all rings
(Hilbert-) quasi-polynomials
CoCoALib - CoCoALib-0.99535 Sep14
    Subtle ref count bug for poly rings (...)
    problem with "matrix" argument (...)
    Release: CoCoALib-0.99535
CoCoALib - CoCoALib-0.99536 June 2015
    Compute inverse in quotient ring (...)
    Release: CoCoALib-0.99536
    Modulus (for CRTMill) ambiguous
    Inverse of a matrix over ZZ
    NumTheory: sieve of Eratosthenes
    Ambiguous: rank for matrix (in (...)
    Clean test-FreeModule1
    Move code in test file into namespace (...)
    QBGenerator crashes
    RatReconstructByLattice fails in (...)
    power for PPs is too slow
    Fault tolerant rational reconstruction: (...)
    DetDirect calls myAddMul with 0 (...)
    Interrupt mechanism
    CheckForInterrupt: string arg to (...)
    Move code in examples into namespace (...)
CoCoALib - CoCoALib-0.99538 summer 2015
    Release: CoCoALib-0.99538 (together (...)
    RandomSubsetIndices, RandomTupleIndices?
    New function for making list of (...)
CoCoALib - CoCoALib-0.99540 Feb 2016
    Janet Bases: check and include (...)

Time limit: let user specify time (...)
Module index component in internal (...)
Makefile_dependencies in src/tests/
Stats in GBMill (GReductor)
frobby (v0.9.0) does not compile (...)
Configuration: where to keep source (...)
NumTheory: behaviour of InvMod (...)
compilation on fedora 23: some (...)
CoCoALib function for radical (or (...)
PPOrderingCtor: name of mem fn (...)
ReadExpr is too slow on large polys
My first compilations with clang
General verbose mode?
configure: possibly ignore GMP (...)
SmallestNonDivisor -- new fn
configuration: include -std=c++03 (...)
IsInRadical: case of homog ideal
Split poly into homog parts
Improvement: how to sort QuotientBasis?
LF curiously slow (breaking a poly (...)
ReadExpr(P, string) and RingElem(P, (...)
New function: IdealOfGBasis, IdealOfMinGens (...)
CoCoALib version in Documentation (...)
Catching an (expected) error
Bug in MinPolyModular (ugly prime)
Design: should we allow an ideal (...)
makefile: ungraceful when interrupted
ideal() * RingElem gives error
factor in ZZ[x] gives errors
MinPolyQuot: check input (was: (...)
New design for interrupt mechanism
MinPolyQuot: runs out of primes
ExternaLib-MathSAT: first prototype   **Closed 100%**
Rename ERR::SERIOUS to ERR::ShouldNeverGetHere

Bug in MinPolyModular (insufficient (...)	
Implement RootBound	
New fn: IsCoprime (whenever gcd (...)	
Compilaton with --debug configuration (...)	
Polynomial multiplication wrong (...)	
File names, coding conventions: (...)	
CoCoALib - CoCoALib-0.99600	
Porting "IdealOfProjectivePoints"	
New file: BigRatOps	
port to CoCoALib: Homomorphism (...)	
ExternalLib: simplify configuration	
IsPositiveGrading -- really need (...)	
Doc for BigInt, BigIntOps, BigRat (...)	
New function: MinPoly of RingElem (...)	
New function: PrimaryDecomposition0 (...)	
Makefile: install target for CoCoALib	
coefficients for MinPoly e Frobenius	
MinPolyQuot: missing doc	
Determinant of matrix over QQ (whose (...)	
PrevPrime and NextPrime anomalies	
Move examples directory into doc (...)	
New function: SubmoduleOfMinGens	
Sturm sequence	
File names, coding conventions: (...)	
Release: CoCoALib-0.99600 (together (...)	**Closed 100%**
SmallFpImpl: new ctor arg to say (...)	
Create a new "prime source" iterator	
New function: MinPolyQuotHeuristic (...)	
Add global enum "verify/DontVerify"	
Check semantics of NoSmallFactorSeq	
Split SparsePolyRing.C in smaller (...)	
MinPoly over QQ: verification may (...)	
New class VerificationLevel	
New function: RandomLinearForm (...)	

File names: use "SparsePolyOps" (...)

New function: myPrimaryDecomposition_0dim

BigRat(0) unexpectedly compiles! (...)

CpuTime is costly!

"mod" for BigInt

factor: multivariate, wrong RemainingFactor (...)

Release: CoCoALib-0.99580 (together (...)

GCD bug with high degree arg

factor over algebraic extensions

SyzOfGens: bug with zero generators

CoCoALib - CoCoALib-0.99650 November (...)

Bareiss algorithm

Matrix determinant over ZZ

Replace auto_ptr in preparation (...)

txt2tags: double quotes wrong in (...)

GCD very slow

Rename iroot?

Primary Decompositon (zero-dim) (...)

gcd crashes (Floating point exception)

New function: HasPositiveGrading

HilbertSeries should check grading

NewPolyRing default indet names

IsPrime(0)

MinPolyQuot: guaranteed and ideal (...)

principal ideal has a Gbasis

SEGV: CoCoALib with Normaliz in (...)

New function: radical for monomial (...)

RingID: different values in test-output (...)

C++14: use nullptr

ThreadsafeCounter is now obsolete?

Release 0.99650

Printing for (prime) finite fields

Never use "using namespace .." (...)

New fn: FixedDivisor (formerly (...)

Function MakeTermOrd should be (...)

Janet basis code: TmpJB files give (...)

SimplestBigRatBetween: why is it (...)

SmoothFactor: slow when a factor (...)

Split MatrixOps

Reconsider design for accessing (...)

FreeModule: get canonical basis

Tidy up code for matrix determinant

adj: for matrices 7x7 and bigger

Radical 0-dim: varied timings

GBasisTimeout: not working as expected

RingElems: syntax with [and] (...)

SHA checksum for released code

New fn: interreduction

Radical 0-dim NYI? missing case (...)

Flatten for a matrix

Make SmoothFactor interruptible

Redesign interrupt mechanism?

Name of TensorMat; change to KroneckerProd?

Change CoCoA_ERROR into CoCoA_THROW_ERROR

SmoothFactor: use FactorMultiplicity

Change syntax apply(phi,M) into (...)

isystem not working as expected

Release CoCoALib 0.99800

IsPowerOf2 for rationals

ker bug (quotientinghom for R/ideal())

New function: MinusOneToPower

Normaliz 3.8.9

factorization: allow zero as exponent?

IsDivisible in a field?

Indets in coeffring are ringelems (...)

RandomLinearForm

Input fns: action when when istream (...)

MacOS compilation with clang

INPUT questions

RingElem from string (ReadExpr)

Require decimal mode for ostream?

Software licence

CpuTimeLimit: more frequent clock (...)

BigRat: ctor from machine int

IsInRadical: gives "weird" error

FloatStr sometimes produces NUL (...)

New fn prim for polys

CRASH/ABORT: GMP overflow

IdealOfPoints: allow matrix of (...)

CRASH: LinKerZZ

Compilation of Normaliz

Normaliz 3.8.10

RingHom: implement phi(X) as apply(phi, (...)

Compilation ambiguity

binomial: domain of defn?

CoCoALib - CoCoALib-0.99850

submat takes only vector<long>

C++11 compatibility questions

Mod fn for computing remainder

MatrixView/function for viewing (...)

W.Bruns's wish list

Improve doc about ordering/grading (...)

Iter for subsets/tuples

Make RingBase::myCharacteristic (...)

Which ubuntu / debian packages (...)

Automatic mapping of RingElem: (...)

Makefile; limit dependencies on (...)

PPMonoidSparse: impl of sparse (...)