

CoCoA-5 - Support #1471

Release CoCoA-5.4.0

03 Jul 2020 15:27 - John Abbott

<b>Status:</b>	Closed	<b>Start date:</b>	03 Jul 2020
<b>Priority:</b>	Urgent	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	100%
<b>Category:</b>	Release	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	CoCoA-5.4.0	<b>Spent time:</b>	1.60 hour
<b>Description</b>			
Everything for the release			
CHECK FOR BUGS			
Compile with <code>--debug</code> flag, and check that everything runs OK.			
In <code>src/CoCoA-5/</code> run <code>make ManExamples</code> , and check that everything is OK.			
Redmine Roadmap: close or postpone issue			
Redmine Release issues: check percentages, check timings			
Last check to CoCoALib doc, CoCoA-5 doc and RelNotes, TranslationTable.			
Finalize			
version number for CoCoALib release: <code>configuration/version</code>			
version number for CoCoA-5 release: <code>CoCoA-5/release-files/version</code>			
cvs checkout in snapshot dir			
<code>cd snapshotdir</code>			
<code>configure --again</code>			
<code>make</code>			
<code>cd src/CoCoA-5</code>			
<code>time make doc</code>			
<code>time make ManExamples</code> (~4min, and search "ERROR:" in <code>ManExamples-out</code> )			
<code>ls-lt CoCoAManual/html</code>			
RELEASE FOR MAC FOR LINUX			
<code>cd src/CoCoA-5/release-files</code>			
<code>./release-mac.sh</code> (local)			
<code>./release-linux.sh</code> (on virtual machine 64-bit and on 32-bit)			
RELEASE COCOALIB			
<code>~/shell-scripts/cocoalib-cvs-snapshot</code>			
<code>---- make release for CoCoALib ----</code>			
RELEASE FOR WIN			
copy cocoalib tgz on windows virtual machine			
compile windows text version on virtual machine, copy CoCoAInterpreter from SharedFolder into local dir			
<code>./release-win.sh</code>			

(ask someone for windows gui version...)

## WEBSITE

```
update /Volumes/WWW/webcocoa/download/download5.shtml
update /Volumes/WWW/webcocoa/download/RelNotes.shtml
[ [http://cocoa.dima.unige.it/download/RelNotes.shtml] ]
```

```
upload manual
publish manual (arXiv? ResearchGate?)
```

```
close release on Redmine
```

```
---> send message to facebook page
---> send email
---> update list with undelivered emails
```

## History

### #1 - 03 Jul 2020 15:28 - John Abbott

Here are some release notes:

- new fn **IsEmpty** (for lists)
- new fn **RandomSmallPrime** (exported from CoCoALib)
- new fn **RootBoundTransform**
- new fn **HadamardBoundSq** (exported from CoCoALib)
- new fn **FrobeniusNormSq** (exported from CoCoALib)
- new fn **IsAtEOF** (for testing for end of input)
- automatic promotion of ring elems (in some circumstances)
- new fn **ElapsedTime**
- new fn **substring**
- new **prototype fn MinGBoverZZ** (see issue [#1272](#))
- fn **SmoothFactor** has been renamed to **FactorINT\_TrialDiv**; new fns **FactorINT** and **FactorINT\_PollardRho**
- **revised impl** for **MinSubsetOfGens** (usually faster than before -- may give different results)
- **revised semantics** for **UnivariateIndetIndex**: now gives error if arg is a constant poly.
- **removed apply**: just use function call syntax instead!
- **removed/renamed fns RationalAffinePoints** and **RationalProjectivePoints** (use **RationalSolve** and **RationalSolveHomog** instead)
- semantics of **RationalSolve** changed: now computes only affine solns, and return value is now a record
- new fn **RationalSolveHomog** -- effectively replaces **RationalProjectivePoints**
- double exponent warning: expr like  $x^2^3$  produce a warning with a recommendation to use brackets
- **xel** may now be specified as an ordering when creating a polyring.

**#2 - 03 Feb 2022 18:52 - John Abbott**

I'm wondering whether we should release 5.3.4 as soon as practicable... otherwise I doubt I'll be able to help make a release this year!

**#3 - 03 Feb 2022 19:41 - John Abbott**

- *Priority changed from Normal to Urgent*

If we do make a hurried release (as I recommend), should we include a "health warning" that it is a hasty release?

**#4 - 03 Feb 2022 20:01 - John Abbott**

- *Status changed from New to In Progress*

- *% Done changed from 0 to 20*

I have been postponing lots of issues which cannot be closed in the very immediate future.  
I really hope we can get 5.3.4 out fast... to avoid that long delay!

**#5 - 05 Feb 2022 20:40 - John Abbott**

- *% Done changed from 20 to 40*

**#6 - 06 Feb 2022 08:58 - John Abbott**

- *% Done changed from 40 to 50*

Current CVS compiles, runs and all tests pass on Linux-64, Linux-32 and my old MacBook.

**#7 - 18 Feb 2022 17:40 - John Abbott**

Consider the number of changes since the last "official" release (5.3.2), and decide whether to call this one 5.3.4 or 5.4.0.

**#8 - 23 Feb 2022 12:04 - Anna Maria Bigatti**

- *Subject changed from Release CoCoA-5.3.4 to Release CoCoA-5.4.0*

**#9 - 03 Mar 2022 16:38 - Anna Maria Bigatti**

- *Description updated*

**#10 - 13 Jun 2022 15:14 - John Abbott**

Shouldn't this issue be closed now? The release has been made.

**#11 - 13 Jun 2022 15:33 - Redmine Admin**

- *Status changed from In Progress to Closed*

- *% Done changed from 50 to 100*