CoCoALib - Feature #354

New function BinRepr (was BinExp, also known as Macaulay representation)

23 May 2013 08:32 - Anna Maria Bigatti

Status:	Closed	Start date:	23 May 2013
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	New Function	Estimated time:	0.00 hour
Target version:	CoCoALib-0.9953	Spent time:	10.25 hours
Description			
port the binomial representation into CoCoALib, and then to CoCoA-5. It was called "BinExp" in CoCoA-4, but Exp reminds "exponent".			
Related issues:			
Related to CoCoA-5 - Design #474: Eliminate package BinRepr		**In Progress** 14 Mar 2014	

History

#1 - 23 May 2013 08:40 - Anna Maria Bigatti

- Subject changed from New function BinRepr (also known as Macaulay representation) to New function BinRepr (was BinExp, also known as Macaulay representation)

#2 - 23 May 2013 12:32 - John Abbott

- Status changed from In Progress to Feedback

- % Done changed from 0 to 90

I have implemented **BinomialRepr** and **BinomialReprShift** in CoCoALib, and made them accessible from CoCoA-5. The documentation has been updated.

The impl is a compromise between simplicity and speed; anyway, noticeably faster than CoCoA-4 for larger inputs.

Note: we have decided to declare EvalBinExp obsolete because the new function BinomialReprShift is fast enough.

#3 - 29 May 2013 16:41 - John Abbott

- Status changed from Feedback to Closed

- % Done changed from 90 to 100

I'm closing this even though strictly speaking there are no tests for BinomialRepr.