CoCoALib - Bug #680

DistrMPolyClean does not use MemPool for summands?

13 Apr 2015 22:18 - John Abbott

Status:	Resolved		Start date:	13 Apr 2015
Priority:	Normal		Due date:	
Assignee:	John Abbott		% Done:	70%
Category:	Tidying		Estimated time:	0.00 hour
Target version:	CoCoALib-0.99880		Spent time:	3.30 hours

Description
It seems that DistrMPolyClean does not use MemPool for summands even though a suitable MemPool as passed as argument to the ctor.

Related issues:			
Related to CoCoALib - Slug #329: Why is DMPI slower than DMPClean?	**New**	**12 Mar 2013**
Related to CoCoALib - Support #791: Clean code for DistrMPolyClean	**New**	**29 Oct 2015**

History

#1 - 13 Apr 2015 22:22 - John Abbott

Why is the MemPool object which is given to DistrMPoly ignored?

MemPool logging shows that the summand pool is not used.

#2 - 22 Oct 2015 15:37 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 10

I have mimicked the idea of NewSummandPtr from DistrMPolyInlFpPP. It all compiles, and the tests pass (miracle?).

I was a bit surprised to find that DistrMPolyClean is not as clean as I had expected.

Now I have to check whether MemPool is really being used for the summands...

#3 - 22 Oct 2015 15:54 - Anna Maria Bigatti

John Abbott wrote:

> I was a bit surprised to find that DistrMPolyClean is not as clean as I had expected.

oops. I do remember that I noticed that summand are treated differently in the DistrMPolyXXX implementations, and I did think of comparing them and unify them. But one always finds good excuses not to do dangerous work on pointers ;-)

#4 - 29 Oct 2015 14:02 - John Abbott

- Status changed from In Progress to Resolved

- Assignee set to John Abbott

- % Done changed from 10 to 70

I have now revised the code so that it uses its MemPool for summands; essentially I had to "steal" the idea of NewSummandPtr from DistrMPolyInlFpPP. After some SEGV excitement, it now seems to work.

I wonder if changing to MemPool will make DMPClean slower than DMPI -- see [#329](#329).

I have cleaned my changes, but there is still a lot of cruft.

#5 - 09 Nov 2020 20:56 - John Abbott

- Target version changed from CoCoALib-1.0 to CoCoALib-0.99850

#6 - 07 Mar 2023 20:49 - John Abbott

- Target version changed from CoCoALib-0.99850 to CoCoALib-0.99880