

CoCoALib - Feature #400

add myJBMill member field to ideal

02 Aug 2013 17:43 - Anna Maria Bigatti

Status:	New	Start date:	02 Aug 2013
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	New Function	Estimated time:	0.00 hour
Target version:	CoCoALib-1.0	Spent time:	1.25 hour
Description			
Related issues:			
Related to CoCoALib - Feature #215: Janet Bases: check and include code in Co...		Closed	02 Aug 2012
Related to CoCoALib - Design #455: Which sets of generators in an ideal?		New	03 Mar 2014
Related to CoCoALib - Design #871: Redesign ideals		New	26 Apr 2016
Related to CoCoALib - Design #921: Design GBMill		New	16 Sep 2016

History

#1 - 29 Oct 2013 13:08 - Anna Maria Bigatti

- Target version set to CoCoALib-0.99532

#2 - 01 Apr 2014 19:27 - Anna Maria Bigatti

- Category set to New Function

- Target version changed from CoCoALib-0.99532 to CoCoALib-0.99533 Easter14

#3 - 07 Apr 2014 18:21 - John Abbott

- Target version changed from CoCoALib-0.99533 Easter14 to CoCoALib-0.99534 Seoul14

#4 - 31 Jul 2014 12:40 - Anna Maria Bigatti

- Target version changed from CoCoALib-0.99534 Seoul14 to CoCoALib-1.0

#5 - 15 Sep 2014 11:21 - John Abbott

I found this is an email message (from me) of 20140613:

```
The (naive) attempt to add a JBMill to an ideal failed dismally :-(
There were several problems:
(1) you cannot have a data member of type std::auto_ptr<JBMill> because
    then the copy ctor won't work;
(2) with C++11 you could use std::shared_ptr instead of auto_ptr...
(3) there were problems with "circular includes": I wanted to add the
    field auto_ptr<JBMill> to IdealImpl in SparsePolyRing.H, but TmpJBMill.H
    already includes SparsePolyRing.H, so the include failed :-(
```

It might be possible to split SparsePolyRing.H into two files, but I need to think about this before deciding what to do.

#6 - 15 Sep 2014 12:04 - Anna Maria Bigatti

John Abbott wrote:

I found this is an email message (from me) of 20140613:

(1) you cannot have a data member of type `std::auto_ptr<JBMill>` because

then the copy ctor won't work;

(2) with C++11 you could use `std::shared_ptr` instead of `auto_ptr`...

SmartPtrIRC

(3) there were problems with "circular includes": I wanted to add the field `auto_ptr<JBMill>` to `IdeallImpl` in `SparsePolyRing.H`, but `TmpJBMill.H` already includes `SparsePolyRing.H`, so the include failed :-(
It might be possible to split `SparsePolyRing.H` into two files, but I need to think about this before deciding what to do.

It'd be worth having the implementation of `SparsePolyRing::ideal` in a separate file. This data type is crucial in CoCoA and I think it deserves it's own file ;-)

#7 - 26 Apr 2016 15:11 - John Abbott

- Related to Design #871: Redesign ideals added

#8 - 16 Sep 2016 08:31 - Anna Maria Bigatti

- Related to Design #921: Design GBMill added