CoCoALib - Feature #320

PPMonoid pseudo-ctors without symbol names

21 Feb 2013 17:50 - John Abbott

Status:	Rejected		**Start date:**	21 Feb 2013
Priority:	Normal		**Due date:**	
Assignee:	John Abbott		**% Done:**	0%
Category:	New Function		**Estimated time:**	0.00 hour
Target version:	CoCoALib-0.9953		**Spent time:**	1.00 hour

Description

Here are 3 proposals for new PPMonoid pseudo-ctor signatures:

```
PPMonoid NewPPMonoid(const PPOrdering& ord);
PPMonoid NewPPMonoid(const MachineInt& nvars, const PPOrdering& ord);
PPMonoid NewPPMonoid(const MachineInt& nvars, const PPOrderingCtor& ord);
```

Is the second pseudo-ctor useful? The PPOrdering already knows the number of indets it expects!

NB This idea was buried in issue #156.

Related issues:

Related to CoCoALib - Feature #812: PPMonoid pseudo-ctor without explicit ord...	**New**	**23 Nov 2015**
Related to CoCoALib - Design #1223: NewPolyRing default indet names	**Closed**	**02 Sep 2018**

History

#1 - 21 Feb 2013 17:53 - John Abbott

What would we want these pseudo-ctors to do?

1. create a PPMonoid using anonymous symbols
2. create a PPMonoid using named symbols (*e.g.* x[1] upto x[n])

Anna thinks (2) is better because it corresponds to what we do when creating a new sparse poly ring without specifying the names.

#2 - 26 Feb 2013 17:40 - John Abbott

- Category set to New Function

- Status changed from New to In Progress

- Assignee set to John Abbott

- Target version set to CoCoALib-0.9953

John and Anna do not yet agree on what names should be given to the indets in a PPM created by these fns: John prefers (1), Anna prefers (2).

It is not especially onerous to achieve the behaviours (1) and (2) explicitly: for instance

```
NewPPMonoid(NewSymbols(n), ChosenOrdering);        -- anonymous symbols
NewPPMonoid(SymbolRange("x",1,n), ChosenOrdering); -- symbols x[1..n]
```

John now proposes that this issue be **rejected** because:

- it offers little saving over existing ways of creating PPMs

- the precise meaning is ambiguous (J & A have different expectations)

#3 - 05 Mar 2013 18:16 - John Abbott

- Status changed from In Progress to Rejected

Both Anna and John think this issue should be rejected.

#4 - 02 Sep 2018 21:33 - John Abbott

- Related to Design #1223: NewPolyRing default indet names added