

CoCoA-5 - Feature #1290

NewPolyRing: allow symbols with just head and no indices?

27 May 2019 13:21 - John Abbott

Status:	Closed	Start date:	27 May 2019
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	enhancing/improving	Estimated time:	0.99 hour
Target version:	CoCoA-5.3.0	Spent time:	1.10 hour
Description			
It seems superfluous to have to specify an empty list of indices if one wants no indices; should we allow the indices field to be absent (treated as if it were an empty list)?			
<pre>>>> NewPolyRing(QQ, [record[head:="alpha", indices:=[]]]); RingWithID(3, "QQ[alpha]") >>> NewPolyRing(QQ, [record[head:="alpha"]]); --> ERROR: record must have "head" and "indices" fields --> NewPolyRing(QQ, [record[head:="alpha"]]); --> ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^</pre>			
Related issues:			
Related to CoCoA-5 - Bug #1273: NewPolyRing and SymbolRange together make a c...		Closed	29 Apr 2019

History

#1 - 27 May 2019 13:22 - John Abbott

- Related to Bug #1273: NewPolyRing and SymbolRange together make a crash added

#2 - 27 May 2019 13:26 - John Abbott

The manual page for NewPolyRing could be improved (and made shorter).
I find the discussion about ::= to be an unhelpful distraction (at least, in its current position).

#3 - 27 May 2019 13:49 - Anna Maria Bigatti

I agree: ok for treating "no indices" as "empty indices".

#4 - 27 May 2019 13:51 - Anna Maria Bigatti

John Abbott wrote:

The manual page for NewPolyRing could be improved (and made shorter).
I find the discussion about ::= to be an unhelpful distraction (at least, in its current position).

This should be another issue. Nothing to do with head and indices ;-)

#5 - 27 May 2019 14:35 - John Abbott

- Status changed from New to Resolved

- Assignee set to John Abbott
- % Done changed from 0 to 70

I have modified the fn evalArgAsListOfSymbols so that it accepts records with just a head field and no indices field.

The code does not check whether there are any other fields -- if present, they are silently ignored.

I have added a single test (actually in exbugs.cocoa5).
Doc still needs to be updated.

#6 - 04 Oct 2019 16:19 - Anna Maria Bigatti

It works now. (both Mac and Linux)
However, NewPolyRing(QQ, "alpha"); is better, isn't it? ;-)
Close?

#7 - 05 Oct 2019 12:25 - John Abbott

Yes, NewPolyRing(QQ, "alpha") is cleaner, simpler, etc.
But if you want to specify several symbols, some of which have indices and some don't...

NOTE (2020-02-15) JAA no longer understand what this comment is about it --> ignore it?

#8 - 15 Feb 2020 10:28 - John Abbott

- Status changed from Resolved to Closed
- % Done changed from 70 to 100
- Estimated time set to 0.99 h

This seems to work fine now. The manual page needs cleaning; but I'll make a separate issue.
Closing.