

CoCoALib - Bug #705

DetDirect calls myAddMul with 0 argument -- funny compilation problem??

15 May 2015 12:28 - Anna Maria Bigatti

Status:	Closed	Start date:	15 May 2015
Priority:	Normal	Due date:	
Assignee:	Anna Maria Bigatti	% Done:	100%
Category:	Improving	Estimated time:	3.00 hours
Target version:	CoCoALib-0.99536 June 2015	Spent time:	2.10 hours
Description			
with (CoCoA-5) input:			
<pre>Use R ::= QQ[x,y,z]; A := IdentityMat(R,4); det(A);</pre>			
the function DetDirect calls			
<pre>ans.myAddMulLM(term, RingElem(R,signature(cols)), 1);</pre>			
with term=0 (pretty reasonable). But DistrMPolyInlPP has this line (h is the first argument)			
<pre>if (IsZero(h)) CoCoA_ERROR(ERR::NotNonZero, "DistrMPolyInlPP::myAddMul");</pre>			
Why my debugging version calls this and the optimized version doesn't?????? Something funny going on. I'll investigate.			

History

#1 - 15 May 2015 15:51 - Anna Maria Bigatti

- Status changed from New to Feedback

- % Done changed from 20 to 80

I still don't understand why it seemed to work (maybe a missing cvs checkout)

The problem is a simple (when you know where) bug:

the correct line in DetDirect (line 550) for MatrixOperations.C is

```
ans.myAddMulLM(RingElem(R,signature(cols)), term, 1);
```

(swapped arg1 and arg2)

#2 - 26 Jun 2015 16:15 - John Abbott

- Status changed from Feedback to Closed

- % Done changed from 80 to 100

No problems encountered after 1 month in feedback. Closing.