CoCoA-5 - Bug #1190

HilbertBasisKer: SEGV (again)

19 Jun 2018 11:43 - John Abbott

Status:	Closed	Start date:	19 Jun 2018	
Priority:	High	Due date:		
Assignee:	Anna Maria Bigatti	% Done:	100%	
Category:	bug	Estimated time:	3.51 hours	
Target version:	CoCoA-5.2.4	Spent time:	3.40 hours	
Description				
I get SEGV with the following input:				
N := 9;				
M := mat([[random(-99,99) j in 12*N] i in 1N]);				
h := hildertBasisk	xer(M);			
Related issues:				
Related to CoCoA-5 - Bug #226: HilbertBasis segv			Closed	10 Sep 2012

History

#1 - 19 Jun 2018 11:44 - John Abbott

CoCoA should never SEGV --> high priority.

Also it would help to make HilbertBasisKer interruptible.

#2 - 21 Jun 2018 18:18 - Anna Maria Bigatti

- Related to Bug #226: HilbertBasis segv added

#3 - 25 Jun 2018 08:59 - Anna Maria Bigatti

- Assignee set to Anna Maria Bigatti

- % Done changed from 0 to 80

The problem is that this is old C code (toric), thus it impossible to make it interruptible (we can interrupt it, of course, but I don't know how to clean the memory state)

In this example the input translated into the C data type gave a biterm with negative degree (entries are int). I do not dare changing int into long, but I added a check so that any exponent has upper limit maxint/numindets (functions PPs2Binom and MatKerToBListAndIndices in \$TmpToric.C\$).

#4 - 25 Jun 2018 11:31 - Anna Maria Bigatti

- Status changed from New to Feedback
- Estimated time set to 3.01 h

Added test. Checked in.

#5 - 25 Jun 2018 11:32 - Anna Maria Bigatti

- % Done changed from 80 to 90

- Estimated time changed from 3.01 h to 3.51 h

#6 - 30 Jul 2018 14:15 - John Abbott

- Status changed from Feedback to Closed

- % Done changed from 90 to 100

CLosing