

## CoCoA - Bug #141

### Memory leak using Elim in C5

30 Apr 2012 16:32 - John Abbott

<b>Status:</b>	Closed	<b>Start date:</b>	30 Apr 2012
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	100%
<b>Category:</b>	Portability	<b>Estimated time:</b>	4.00 hours
<b>Target version:</b>		<b>Spent time:</b>	0.20 hour
<b>Description</b>			
The following code has the symptoms of a memory leak (grows to about 650Mbytes):			
<pre>Use QQ[x,y,t]; Use ZZ/(32003)[x,y,t]; I := Ideal((8*t^3 -9*t^2 -4*t -8)*x - (6*t^3 -5*t^2 +7*t -7),            (9*t^3 +8*t^2 -6*t +5)*y - (9*t^3 +8*t^2 -9*t +7));  For K := 1 To 10000 Do   J := Elim([t],I); EndFor;</pre>			
I don't know if the leak is in C5 or in CoCoALib.			
I expect that, once found, it will be almost trivial to fix.			
BTW it could be handy to have BuildInfo in CoCoA-5 for those who report bugs.			
<b>Related issues:</b>			
Related to CoCoALib - Feature #142: Improve threadsafety		<b>In Progress</b>	<b>30 Apr 2012</b>

### History

#### #1 - 30 Apr 2012 17:44 - John Abbott

I was running a CoCoA-5 compiled with **-DCoCoA\_THREADSafe\_HACK**. The leaks I observed disappeared when I removed that compilation flag. No doubt the problem is due to the temporary rings (inside Elim) not self destroying when they're no longer needed -- ref counting is disabled when the threadsafety hack is forced.

Maybe I should add a threadsafety issue?

#### #2 - 30 Apr 2012 17:52 - John Abbott

- Status changed from New to Closed

- % Done changed from 0 to 100

#### #3 - 13 Jul 2012 15:51 - Anna Maria Bigatti

- Category set to Portability