

## CoCoA-5 - Bug #1383

### NewPolyRing on MS Windows

07 Jan 2020 16:29 - John Abbott

<b>Status:</b>	Closed	<b>Start date:</b>	07 Jan 2020
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	John Abbott	<b>% Done:</b>	100%
<b>Category:</b>	bug	<b>Estimated time:</b>	0.99 hour
<b>Target version:</b>	CoCoA-5.3.0	<b>Spent time:</b>	1.00 hour
<b>Description</b>			
Bernhard Andraschko reports that the following causes a crash on MS Windows 10 Pro (10.0.17763)			
<pre>define BernhardBug()   S := NewPolyRing(RingQQ(), SymbolRange("x", [1,1], [3,3]));   return S; enddefine; -- BernhardBug  BernhardBug();</pre>			
<b>Related issues:</b>			
Related to CoCoA-5 - Bug #1384: NewPolyRing and SymbolRange		<b>Closed</b>	<b>07 Jan 2020</b>

### History

#### #1 - 07 Jan 2020 16:31 - John Abbott

JAA says the bug is not present on current internal version of CoCoA-5 compiled and running on Linux.

The error message is produced by a failed BOOST assertion about a pointer being NULL when it should not be. Bernhard will send more details in another comment.

#### #2 - 07 Jan 2020 16:32 - John Abbott

- Description updated

#### #3 - 07 Jan 2020 16:40 - John Abbott

- Description updated

#### #4 - 07 Jan 2020 16:42 - John Abbott

- Related to Bug #1384: NewPolyRing and SymbolRange added

#### #5 - 07 Jan 2020 21:59 - John Abbott

In any case we should add an example like this as a new "official" test.

#### #6 - 08 Jan 2020 01:02 - Bernhard Andraschko

The error code displayed after calling the function BernhardBug() is

```
assertion "px != 0" failed: file "/usr/include/boost/smart_ptr/intrusive_ptr.hpp", line 161, function: T* boost::intrusive_ptr<T>::operator->() const [with T = CoCoA::InterpreterNS::INT]
```

The problem is that NewPolyRing can't handle the output of SymbolRange and it appeared with any coefficient ring I tried. Actually, after updating we found out that this seems to be fixed in CoCoA-5.2.5 (also on Windows). The bug only appeared in version 5.2.4.

**#7 - 08 Jan 2020 09:19 - John Abbott**

- *Status changed from New to Resolved*
- *Assignee set to John Abbott*
- *% Done changed from 0 to 50*

Can we now close this issue as it seems to be completely resolved using the latest release of CoCoA-5? Anyway, a test should be added to exbugs.cocoa5; perhaps I can do that. **DONE** checked into CVS.

Does the problem persist on Linux using the latest version?

**#8 - 08 Jan 2020 09:37 - Bernhard Andraschko**

According to Peter Mader it also works on Linux with this version, so I think we can close this thread.

**#9 - 08 Jan 2020 15:03 - John Abbott**

- *Target version changed from CoCoA-5.4.0 to CoCoA-5.3.0*
- *% Done changed from 50 to 90*
- *Estimated time set to 0.99 h*

Both Bernhard and Peter confirm that everything is fine using the "interim" release 5.2.5; they did comment that the web site suggested that 5.2.4 is "more reliable" than 5.2.5... in this case that advice is misleading!

Moving to Feedback.

**#10 - 08 Jan 2020 16:08 - Anna Maria Bigatti**

I confirm it works fine on MacOS.

**#11 - 09 Jan 2020 11:25 - Anna Maria Bigatti**

- *Status changed from Resolved to Feedback*

**#12 - 13 Feb 2020 09:30 - Anna Maria Bigatti**

- *Status changed from Feedback to Closed*
- *% Done changed from 90 to 100*