

## CoCoALib - Bug #1362

### GBasis verbose mode: some output is on cerr/clog

13 Nov 2019 14:59 - John Abbott

<b>Status:</b>	Closed	<b>Start date:</b>	13 Nov 2019
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	John Abbott	<b>% Done:</b>	100%
<b>Category:</b>	Tidying	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	CoCoALib-0.99700	<b>Spent time:</b>	2.15 hours
<b>Description</b>			
With VerbosityLevel set to 150, some output when computing a gbasis is on stderr instead of stdout: e.g.			
<pre>&lt;120,131, x[1]^2*x[2]^29, Deg=(), Sugar=110&gt; KILLED BY NEW POLY PPWithMask(x[1]*x[2]^27, DivMask(00100100100100100100100100110), DivMaskEvenPowers) BCRIT</pre>			
Presumably all verbose output should be on the same stream. Rectify!			
<b>Related issues:</b>			
Related to CoCoA-5 - Support #1387: John's visit Feb 2020		<b>Closed</b>	<b>07 Jan 2020</b>

### History

#### #1 - 14 Nov 2019 09:49 - John Abbott

- Subject changed from GBasis verbose mode: some output is on stderr to GBasis verbose mode: some output is on cerr/clog
- Status changed from New to In Progress
- % Done changed from 0 to 10

In **TmpGReductor.C** there are numerous print commands onto **clog**; the commands are called only after checking **VerbosityLevel**.

clog should be replaced by VerboseLog(LEV) where LEV is the appropriate level.

I note that there is a lot of commented out code in TmpGReductor.C.

#### #2 - 14 Nov 2019 19:17 - John Abbott

- Assignee set to John Abbott
- % Done changed from 10 to 50

I have mostly fixed this. There are also very many commented out debugging prints to clog. Some I have removed; but I prefer to do this when Anna is present (esp. if the code is "hers").

Some files I have checked in; some I'll send to Anna for checking first.

#### #3 - 08 Jan 2020 23:04 - John Abbott

Here is a test case:

```
use QQ[x,y];
```

```
L := [(x^3*y^2 - y^5 - 4*y^2)^3, (x^4*y + 2*x^3*y - x^2 + 2*x*y)^3];  
I := ideal(L);  
SetVerbosityLevel(150);  
RGB := ReducedGBasis(I);
```

#### **#4 - 09 Jan 2020 11:32 - John Abbott**

- *Related to Support #1387: John's visit Feb 2020 added*

#### **#5 - 11 Feb 2020 18:09 - John Abbott**

- *Status changed from In Progress to Feedback*

- *% Done changed from 50 to 90*

Anna has changed all prints in TmpGReducers to use the stream produced by VerboseLog.

Compiles & all tests pass.

#### **#6 - 12 Feb 2020 18:14 - Anna Maria Bigatti**

- *Status changed from Feedback to Closed*

- *% Done changed from 90 to 100*

Removed all calls to clog. Replaced with VERBOSE.