CoCoALib - Bug #1362

GBasis verbose mode: some output is on cerr/clog

13 Nov 2019 14:59 - John Abbott

Status:	Closed	**Start date:**	13 Nov 2019
Priority:	Normal	**Due date:**	
Assignee:	John Abbott	**% Done:**	100%
Category:	Tidying	**Estimated time:**	0.00 hour
Target version:	CoCoALib-0.99700	**Spent time:**	2.15 hours

Description

With VerbosityLevel set to 150, some output when computing a gbasis is on stderr instead of stdout: *e.g.*

```
<120,131, x[1]^2*x[2]^29, Deg=(), Sugar=110> KILLED BY NEW POLY PPWithMask(x[1]*x[2]^27, DivMask(0
010010010010010010010010100110), DivMaskEvenPowers) BCRIT
```

Presumably all verbose output should be on the same stream.
Rectify!

Related issues:

Related to CoCoA-5 - Support #1387: John's visit Feb 2020	**Closed**	**07 Jan 2020**

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 TmpGReductors 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.


```
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);
```