

CoCoALib - Design #983

Which ostream for verbose/obsolescent log mesgs?

25 Nov 2016 17:53 - John Abbott

Status:	Closed	Start date:	25 Nov 2016
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	Tidying	Estimated time:	1.01 hour
Target version:	CoCoALib-0.99550 spring 2017	Spent time:	0.75 hour
Description			
Which ostream should be used for log messages produced by "verbose mode" or "obsolescent" warnings?			
Note that example programs which produce output on clog or cerr are considered to have failed by the script which runs them and checks that they worked.			
Related issues:			
Related to CoCoALib - Feature #1036: LogStream: stream for log output		Closed	29 Mar 2017

History

#1 - 25 Nov 2016 18:01 - John Abbott

The standard ostream clog would be the logical choice for logging messages (on a program that runs inside an xterm, at least).

Apart from the (minor) problem with example programs being flagged as "failing" even if they only write logging messages, there are other minor complications with putting logging messages on **clog** rather than **cout**. For instance, redirecting output to a file requires redirecting two channels to the file (if logging messages are meant to appear together with standard output). It is not hard to do, but quite possibly many more people know how to redirect one channel than know how to redirect more than one.

In fact, we could use GlobalManager to say where logging message should go. Perhaps the default should be **cout** (which is probably easier for novices), but advanced users can choose to send them to **cerr** or wherever. Also something special may be needed for the GUI (I'm pretty sure output on **clog/cerr** just vanishes into "the bit bucket").

#2 - 20 Jan 2017 16:26 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 10

I have just made a first impl of a simple way to choose the log stream. It comprises a hidden global variable (which is just a reference to an ostream), and two fns (a getter and a setter).

I notice that the impl is quite independent of GlobalManager; since the global var is just a reference, it does not need any special handling at destruction time. So should the impl actually be placed in its own file? an advantage would be that the files which need to use just the log-stream do not need to include all the other junk from GlobalManager.H.

As it is not so hard to remove a file in the future, perhaps I'll use a separate file, and see how things work out.

#3 - 29 Mar 2017 11:58 - John Abbott

- Related to Feature #1036: LogStream: stream for log output added

#4 - 29 Mar 2017 12:02 - John Abbott

- Status changed from In Progress to Closed
- Assignee set to John Abbott
- Target version changed from CoCoALib-1.0 to CoCoALib-0.99560
- % Done changed from 10 to 100

Solved by issue [#1036](#) (which is a duplicate of this issue, but I created it because a search for "LogStream" found no hits).

#5 - 29 Mar 2017 18:12 - John Abbott

- Target version changed from CoCoALib-0.99560 to CoCoALib-0.99550 spring 2017

#6 - 28 Apr 2017 09:35 - Anna Maria Bigatti

- Estimated time set to 1.01 h