

CoCoALib - Feature #1010

C++11: Mario's Hilbert scheme code

20 Feb 2017 13:14 - John Abbott

Status:	New	Start date:	20 Feb 2017
Priority:	Urgent	Due date:	
Assignee:		% Done:	0%
Category:	Portability	Estimated time:	0.00 hour
Target version:	CoCoALib-1.0	Spent time:	0.25 hour
Description Mario would like to incorporate his Hilbert scheme code, but to do so he must compile with c++11 (because he uses several c++11 features). How to do this while maintaining backward compatibility?			
Related issues: Related to CoCoALib - Design #999: configuration: include -std=c++03 by default? Closed 18 Jan 2017 Related to CoCoALib - Feature #82: C++11 compatibility questions Closed 26 Jan 2012 Related to CoCoA-5 - Design #83: C++11 compatibility questions In Progress 26 Jan 2012			

History

#1 - 20 Feb 2017 13:19 - John Abbott

- Priority changed from Normal to Urgent

Mario makes essential use of various C++11 features (e.g. auto variable declarations).

The problem is that CoCoALib continues to use std::auto_ptr which triggers numerous, annoying compiler warnings.
Issue [#999](#) tackled the problem by setting a compiler flag -std=c++03. This correctly suppressed the warnings, but does not solve Mario's problem.

Possibilities are:

- enforce -std=c++11 and set the g++ flag -Wno-deprecated-declarations (**but** how portable to other compilers?)
- replace use of std::auto_ptr by std::unique_ptr (or whatever is most appropriate); this means CoCoALib would no longer be C++03 compatible.

Comments? Other ideas?

#2 - 20 Feb 2017 13:20 - John Abbott

- Related to Design #999: configuration: include -std=c++03 by default? added

#3 - 20 Feb 2017 13:22 - John Abbott

- Related to Feature #82: C++11 compatibility questions added

#4 - 20 Feb 2017 13:22 - John Abbott

- Related to Design #83: C++11 compatibility questions added