

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