

CoCoALib - Feature #319

BOOST -- how it could help in CoCoALib

21 Feb 2013 16:24 - John Abbott

Status:	Closed	Start date:	21 Feb 2013
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	Portability	Estimated time:	0.00 hour
Target version:	CoCoALib-0.99560	Spent time:	0.70 hour
Description			
We collect here some ideas on how using BOOST in CoCoALib could help improve the code. For the moment we opt not to be BOOST dependent; if we change our minds then we should implement the ideas listed here!			
Related issues:			
Related to CoCoALib - Design #932: CoCoALib configuration: BOOST dependency		Closed	30 Sep 2016

History

#1 - 21 Feb 2013 16:29 - John Abbott

- Category set to Portability

(1) Specifying the unsigned integral type for small exponents -- see [#268](#).

(2) Threadsafe counters -- see [#157](#) (related to [#156](#) too).

(3) bool3, 3-state booleans; BOOST offers tribool -- see [#152](#) and [#138](#).

#2 - 01 Apr 2014 17:35 - Anna Maria Bigatti

- Target version set to CoCoALib-0.99533 Easter14

#3 - 04 Apr 2014 17:18 - John Abbott

- Target version changed from CoCoALib-0.99533 Easter14 to CoCoALib-1.0

#4 - 30 Sep 2016 10:46 - John Abbott

- Description updated

An aspect to bear mind if we do opt to become BOOST dependent is that linking would then require linking (first) with libcocoa and (then) with the relevant BOOST libraries. This could be important if the idea is to produce a statically linked executable -- are there static versions of the BOOST libraries? (e.g. on my linux "tower" computer here in Kassel there are only dynamic versions of the libraries).

Many BOOST "library parts" are really just templates in header files, so often there is no linkable code to deal with; but it is probably difficult to be sure that all future versions of BOOST will have the same no-linkable-code parts.

#5 - 30 Sep 2016 10:56 - John Abbott

- Related to Design #932: CoCoALib configuration: BOOST dependency added

#6 - 15 Dec 2017 17:30 - John Abbott

- Status changed from New to Closed

- Assignee set to John Abbott

- Target version changed from CoCoALib-1.0 to CoCoALib-0.99560

- % Done changed from 0 to 100

I now think that it is better to avoid using BOOST if reasonably possible, since otherwise it introduces another "tedious external dependency". Note that CoCoA-5 does use BOOST.

I'm hoping that new features in C++11, C++14 etc will suffice.

Closing.