

## CoCoALib - Bug #1600

### Detect updated versions of external libs

14 Jun 2021 16:19 - John Abbott

<b>Status:</b>	In Progress	<b>Start date:</b>	14 Jun 2021
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	10%
<b>Category:</b>	Safety	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	CoCoALib-0.99880	<b>Spent time:</b>	0.55 hour
<b>Description</b>			
Florian Walsh reported a compilation failure after updating BOOST on his (linux) system. My understanding is that he used the package manager to update BOOST, but did not then re-run configure for CoCoALib. This triggered a compilation failure.			
Find a way to detect updated extlibs, and tell the user to reconfigure. (or somehow warn the user).			
<b>Related issues:</b>			
Related to CoCoALib - Bug #1601: Compilation ambiguity		<b>Closed</b>	<b>16 Jun 2021</b>
Related to CoCoALib - Support #1700: boost_1_80_0		<b>Closed</b>	<b>14 Oct 2022</b>
Related to CoCoA-5 - Design #1696: Which BOOST libs are actually needed?		<b>Closed</b>	<b>18 Aug 2022</b>

### History

#### #1 - 14 Jun 2021 16:24 - John Abbott

Some ideas and comments (for checks to make whenever trying to compile):

- first idea: check whether some extlib header file is more recent than autoconf.mk; **defect:** how to find the path to the header file
- next idea: have a script (for each extlib?) which determines the version; e.g. compile a file in /tmp and see what it prints out; **advantage:** we should have the necessary compilation flags to hand

Suggest for KISS: make these checks only from the main Makefile (at least for the first attempt at resolving)

#### #2 - 16 Jun 2021 16:28 - John Abbott

- Related to Bug #1601: Compilation ambiguity added

#### #3 - 23 Jun 2021 15:17 - John Abbott

- Target version changed from CoCoALib-0.99800 to CoCoALib-0.99850

#### #4 - 12 Nov 2022 13:54 - John Abbott

- Related to Support #1700: boost\_1\_80\_0 added

#### #5 - 12 Nov 2022 13:55 - John Abbott

Is this a duplicate of issue [#1700](#)?

#### #6 - 23 Nov 2022 17:39 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 10

Here is a copy of [#1700#note-5](#) (which I closed because it duplicates this issue).

I wonder if there is a simple away to warn users of potential problems?

A similar problem could arise with any of the external libs, and the solution is no doubt to rebuild dependencies -- and this should normally be done by re-running configure (which may include some other "sanity checks" for external libs).

Here is an idea:

for each ext lib configure computes a check-sum for some header file in that ext lib, and saves the result in autoconf.mk. Then make can verify that the check-sums are correct -- if not, a warning with a delay, can be produced before proceeding with compilation.  
[the delay gives the user a chance to hit Ctrl-C]

**#7 - 30 Nov 2022 17:17 - John Abbott**

- *Related to Design #1696: Which BOOST libs are actually needed? added*

**#8 - 16 Feb 2024 10:02 - John Abbott**

- *Target version changed from CoCoALib-0.99850 to CoCoALib-0.99880*