# CoCoALib - Bug #756

# frobby (v0.9.0) does not compile with g++-4.8

31 Jul 2015 16:01 - John Abbott

Status:	Closed	Start date:	31 Jul 2015
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	Portability	Estimated time:	0.00 hour
Target version:	CoCoALib-0.99560	Spent time:	2.25 hours
Description			
frobby fails to compile with g++ version 4.8.x			

## History

## #1 - 31 Jul 2015 16:03 - John Abbott

There are missing includes in main.cpp and randomDataGenerators.cpp; you need to add:

#include <sys/typs.h>
#include <unistd.h>

Also in StatisticsStrategy.cpp:143 change the type mpz\_class into mpq\_class.

#2 - 31 Jul 2015 16:20 - John Abbott

- Status changed from New to Resolved

- Assignee set to John Abbott

- % Done changed from 0 to 80

JAA has made the changes in the previous note, and all seems to work.

JAA has made a revised TGZ file: frobby\_0.9.1.tgz with these changes.

Should we tell Bjarke?

## #3 - 08 Jun 2016 15:46 - Anna Maria Bigatti

Could you write the changes in the documentation ExternalLibs-Frobby.txt?

## #4 - 10 Jun 2016 16:09 - John Abbott

OK, I have changed the documentation. Could you check to see if it makes sense?

## #5 - 10 Jun 2016 16:50 - Anna Maria Bigatti

John Abbott wrote:

I believe I followed the instructions, but I still have problems like non recognizing std::\_Construct; std::\_Destroy, std::\_\_iterator\_category....

Do you recognize this problem? (otherwise I investigate myself)

#### #6 - 10 Jun 2016 16:55 - John Abbott

I do not recognise the error message you have posted.

Do you have to tell your compiler to use the C++03 standard rather than the C++11 standard?

BTW: I have just checked in a new file ExternalLibs-GMP.txt since there are some useful notes about compiling GMP (that's why I could not get CoCoALib to run on the netbook)

## #7 - 10 Jun 2016 17:08 - Anna Maria Bigatti

I've found this ;-) [[https://github.com/Macaulay2/M2/issues/66]]

I copy here the reply from Bjarke Roune =========

#### #8 - 10 Jun 2016 17:21 - John Abbott

Can you tell your compiler (clang/llvm) to use the old standard? You will have to look in the documentation to see how (but it might simply be --std=c++03).

I have got a "clean compile" here with g++ version 5.3.1 both with and without --std=c++11, though with the option set to specify C++11 there are lots of warnings about auto\_ptr being deprecated.

### #9 - 10 Jun 2016 17:32 - Anna Maria Bigatti

John Abbott wrote:

Can you tell your compiler (clang/llvm) to use the old standard? You will have to look in the documentation to see how (but it might simply be --std=c++03).

## I tried, but I get the same error:

```
src/hash_map/hashtable.h:79:14: error: no member named '_Construct' in namespace
    'std'
    using std::_Construct;
        ~~~~~^
```

Indeed I cannot find \_Construct in /Library/Developer/CommandLineTools/usr/include/c++/v1/

## #10 - 22 May 2017 13:38 - Redmine Admin

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

## #11 - 06 Nov 2017 16:48 - John Abbott

- Status changed from Resolved to Closed
- % Done changed from 80 to 100

JAA has a temporary version of FROBBY available in frobby\_v0.9.3.tgz

This seems to avoid the portability problems of the original code.

Closing.