

CoCoALib - Bug #264

Compilation problem with "degree.H" (inline fn defs)

12 Oct 2012 19:22 - Anna Maria Bigatti

Status:	Closed	Start date:	12 Oct 2012
Priority:	High	Due date:	
Assignee:		% Done:	100%
Category:	Various	Estimated time:	1.00 hour
Target version:	CoCoALib-0.99534 Seoul14	Spent time:	1.05 hour
<b>Description</b> I have a very strange problem compiling the debug2 version. (indeed it is not related with debugging at all, but with a file I have only in my debug directory!)  It seems that adding  <pre>#include "CoCoA/degree.H"</pre> in some .C files (e.g. PPOrdering.C) causes this compilation error  <pre>../../../../include/CoCoA/Utils.H: In function 'int CoCoA::LexCmp3(InputIterator1, InputIterator1, Input Iterator2, InputIterator2) [with InputIterator1 = const CoCoA::BigInt*, InputIterator2 = const CoC oA::BigInt*]': ../../../../include/CoCoA/degree.H:89: instantiated from here ../../../../include/CoCoA/Utils.H:96: error: no matching function for call to 'cmp(const CoCoA::BigInt&amp;, const CoCoA::BigInt&amp;)' ../../../../include/CoCoA/ring.H:327: note: candidates are: int CoCoA::cmp(CoCoA::ConstRefRingElem, CoCo A::ConstRefRingElem) ../../../../include/CoCoA/ring.H:358: note: int CoCoA::cmp(CoCoA::ConstRefRingElem, cons t CoCoA::MachineInt&amp;)</pre>			
<b>Related issues:</b> Related to CoCoALib - Bug #591: Problem with template instantiation and order... <div>In Progress16 Jul 2014</div>			

History

#1 - 12 Oct 2012 19:23 - Anna Maria Bigatti

- Category set to Various

#2 - 14 Oct 2012 16:27 - John Abbott

Try adding (in the right place...)

```
#include "CoCoA/IntOperations.H"
```

#3 - 03 Jun 2013 17:26 - John Abbott

- Subject changed from Compilation problem with "degree.H" to Compilation problem with "degree.H" (inline fn defs)
- Status changed from New to In Progress
- Target version set to CoCoALib-0.99534 Seoul14
- % Done changed from 0 to 10

Why are the ctor and the mem fn FastCmp inline?

Now that the components of the degree vector are BigInt, I doubt that making these fns inline really gains much run speed at all.

**MAKE TIMING OF CODE AS IT IS**

**MAKE CTOR AND FASTCMP** not **INLINE** then **COMPARE TIMINGS**.

If there is not much penalty, make the fns **out of line**.

**#4 - 29 Oct 2013 14:57 - Anna Maria Bigatti**

- Target version changed from CoCoALib-0.99534 Seoul14 to CoCoALib-0.99532

**#5 - 01 Apr 2014 17:26 - Anna Maria Bigatti**

- Target version changed from CoCoALib-0.99532 to CoCoALib-0.99533 Easter14

**#6 - 07 Apr 2014 18:23 - John Abbott**

- Target version changed from CoCoALib-0.99533 Easter14 to CoCoALib-0.99534 Seoul14

**#7 - 20 May 2014 10:37 - John Abbott**

Is this still a problem?

**#8 - 09 Jul 2014 17:59 - John Abbott**

@Anna Is this still a problem? I hope not; then we can just terminate the issue.

**#9 - 09 Jul 2014 18:15 - Anna Maria Bigatti**

- Status changed from In Progress to Closed

- % Done changed from 10 to 100

- Estimated time set to 1.00 h

No problem has ever occurred to anyone in the last year.

Have we fixed it? can't remember.

Has the compiler changed? don't think so.

....Closing.

**#10 - 16 Jul 2014 14:42 - John Abbott**

This seems to be **very similar** to the issue [#591](#); I believe they are occurrences of the same phenomenon. Added [#591](#) as "related".