

Re: compiling taucs problem (Re: solving $Ax=b$ with sparse A)

Source: <http://sci.tech-archive.net/Archive/sci.math.num-analysis/2007-08/msg00065.html>

- *From:* Georg Baum <Georg.Baum@xxxxxx>
 - *Date:* Thu, 09 Aug 2007 10:52:36 +0200
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H.S. wrote:

And the following is the compiler output I get:

```
$> g++ -I$HOME/tmp/taucs/build/linux -I$HOME/tmp/taucs/src
-L$HOME/tmp/taucs/lib/linux -ltaucs -L$HOME/tmp/taucs/external/lib/linux
-latlas -lcblas -lf77blas -llapack -lmetis
$HOME/tmp/taucs/external/lib/linux/blas_aux.o spmat.cc -o spmat
In file included from /usr/include/c++/4.1.3/backward/complex.h:31,
from /home/hs/tmp/taucs/src/taucs.h:132,
from spmat.cc:1:
/usr/include/c++/4.1.3/backward/backward_warning.h:32:2: warning:
#warning This file includes at least one deprecated or antiquated
header. Please consider using one of the 32 headers found in section
17.4.1.2 of the C++ standard. Examples include substituting the <X>
header for the <X.h> header for C++ includes, or <iostream> instead of
the deprecated header <iostream.h>. To disable this warning use
-Wno-deprecated.
/home/hs/tmp/taucs/src/taucs_private.h:45: error: previous declaration
of taucs_ccs_matrix* taucs_ccs_create(int, int, int) with C++
linkage
spmat.cc:6: error: conflicts with new declaration with C linkage
```

So, what am I doing wrong here?

The compiler tells it: The function declaration in line 6 of spmat.cc conflicts with the declaration in taucs_private.h, line 45. It should work if you remove your own declaration in spmat.cc.

In general it should not be needed to declare anything from a library, the library author should have done that in the header files already. If this is not the case then I'd question the quality of the library (the only exception are fortran libraries that you call from C, then you usually need to build your own declarations).

Georg

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