Subject: Linking in the std library

Posted by awksed on Wed, 31 Jul 2024 20:23:50 GMT

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To use the chrono library (which needs C++ 20) in older projects I built a static library in VS 2022.

Linking in my static lib to a U++ console project I get the following error (and other similar):

unresolved external symbol "public: static unsigned int const * const std::_General_precision_tables_2<float>::_Ordinary_X_table "

This is probably related to the use of std::format().

How can I link in the appropriate library or source?

Windows 10 U++ 17045 MSVS22x64

Thanks.

Subject: Re: Linking in the std library

Posted by koldo on Thu, 01 Aug 2024 06:16:42 GMT

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Sorry Awksed, are you referring to std::chrono?

Subject: Re: Linking in the std library

Posted by awksed on Thu, 01 Aug 2024 07:44:26 GMT

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Hi Iñak,

Yes it's std:chrono.

Subject: Re: Linking in the std library

Posted by koldo on Sun, 04 Aug 2024 15:08:46 GMT

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Hi Awksed

I have tried the code in the second answer here (enclosed below) and it has worked in CLANG (W10 and W11) and MSVC (W10):

```
#include <iostream>
#include <chrono>
#include <thread>
int main()
  using namespace std::literals;
  namespace chrono = std::chrono;
  using clock_type = chrono::high_resolution_clock;
  auto start = clock_type::now();
  for(;;) {
     auto first = clock_type::now();
     // note use of literal - this is c++14
     std::this_thread::sleep_for(500ms);
     // c++11 would be this:
           std::this_thread::sleep_for(chrono::milliseconds(500));
     auto last = clock type::now();
     auto interval = last - first;
     auto total = last - start;
     // integer cast
     std::cout << "we just slept for " <<
chrono::duration_cast<chrono::milliseconds>(interval).count() << "ms\n";
     // another integer cast
     std::cout << "also known as " <<
chrono::duration_cast<chrono::nanoseconds>(interval).count() << "ns\n";
     // floating point cast
     using seconds_fp = chrono::duration<double, chrono::seconds::period>;
     std::cout << "which is " << chrono::duration cast<seconds fp>(interval).count() << "
seconds\n";
     std::cout << " total time wasted: " <<
chrono::duration_cast<chrono::milliseconds>(total).count() << "ms\n";
     std::cout << " in seconds: " << chrono::duration cast<seconds fp>(total).count() <<
"s\n";
     std::cout << std::endl;
  }
  return 0;
}
```

Subject: Re: Linking in the std library Posted by awksed on Mon, 05 Aug 2024 16:46:57 GMT

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Hi Iñak,

My problem is with a static library. An exe will build ok as in your reply.

I fixed the problem by eliminating str:formt() from the library.

Many thanks for your reply.

Subject: Re: Linking in the std library Posted by koldo on Tue, 06 Aug 2024 12:37:29 GMT

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Perfect.

In your query I didn't realise that you had compiled your library, which uses std::chrono, as a static library, not that you had done a static compilation.

It's been so long since I've done it, I hadn't thought about it.