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C++ std::function bind callback between libraries without exposing method API

I have looked at quite a few links before asking this question and read quite a lot around std::function, std:bind and callbacks in C++. As I understand, the concept is mostly for event handlers to notify listeners after a certain event has happened. I am struggling to find the right implementation when it applies across library boundaries as I am a newbie into this style of programming.

Here is the situation or the design I need to implement:

I have a library A which has a private function in a class which accepts certain data in and does some processing. There is a libraryB which provides the same data which the function in library A needs, but libraryB exposes a std::function to receive that data. Other library needs to bind its function to its callback to receive the data. So, I need to bind libraryB's function in my Application class.

```
Inside librarvA {
Class A {
private:
    AA objAA;
Class AA {
private
    void func(int x) {
    //this is the function I want to tie to calback in library libB without
exposing the method api
        //How can I expose a public api to return the address of this function so
that the app can bind it to libraryB's callback ?
}
Inside librarvB {
public:
    void registerCallback(std::function<void (int)> callmePls) {
        m_callback = callmePls;
private:
    typedef std::function<void (int)> theCallback;
    theCallback m_callback;
}
Inside my Application which uses both libraryA & libraryB {
//How can I bind/assign "func" in libraryA to the callback in libraryB ?
```

How can I expose a public api from libraryA to return the address of the interested function so that the app can bind it to libraryB's callback? How can I bind/assign "func" in libraryA to the callback in libraryB?

c++ c++11 callback std-function stdbind





1 Answer

with the bodies implemented in a .cpp file (not in the header):

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