Subject: Controls4U_Demo not compiling on Linux
Posted by aquilarubra on Wed, 23 Sep 2020 08:56:45 GMT
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I have release 14429 stable on Arch and Windows. On Windows, Controls4U_Demo compile. On Arch no, with an error in Function.h, line 17:

```
  virtual Res Execute(ArgTypes... args) { return fn(args...); }
```

```
/home/phantom/upp.src/uppsrc/Core/Function.h (17): error: cannot initialize return object of type 'bool' with an rvalue of type 'void'
```

It looks strange to me that it only happens on Linux. I use clang on both systems. I don't know if it has something to do with my U++ aur packaging, but I doubt.

```
/home/phantom/upp.src/uppsrc/Core/Value.hpp (103): warning: implicit conversion from 'long' to 'double' changes value from 9223372036854775807 to 9223372036854775808 [-Wimplicit-int-float-conversion]
/home/phantom/upp.src/uppsrc/Core/Function.h (17): error: cannot initialize return object of type 'bool' with an rvalue of type 'void'
/home/phantom/upp.src/bazaar/Controls4U_Demo/main.cpp (1): In file included from /home/phantom/upp.src/bazaar/Controls4U_Demo/main.cpp:1:
/home/phantom/upp.src/uppsrc/CtrlLib/CtrlLib.h (4): In file included from /home/phantom/upp.src/uppsrc/CtrlLib/CtrlLib.h:4:
/home/phantom/upp.src/uppsrc/CtrlCore/CtrlCore.h (4): In file included from /home/phantom/upp.src/uppsrc/CtrlCore/CtrlCore.h:4:
/home/phantom/upp.src/uppsrc/RichText/RichText.h (4): In file included from /home/phantom/upp.src/uppsrc/RichText/RichText.h:4:
/home/phantom/upp.src/uppsrc/Draw/Draw.h (6): In file included from /home/phantom/upp.src/uppsrc/Draw/Draw.h:6:
/home/phantom/upp.src/uppsrc/Core/Core.h (312): In file included from /home/phantom/upp.src/uppsrc/Core/Core.h:312:
 (): virtual Res Execute(ArgTypes... args) { return  f n(args...) ; }
/home/phantom/upp.src/uppsrc/Core/Function.h (19): note: in instantiation of member function 'Upp::Function<bool ()>::Wrapper<Upp::CallbackN<> >::Execute' requested here
 ():  W rapper(F&& fn) : fn(pick(fn)) {}
/home/phantom/upp.src/uppsrc/Core/Function.h (56): note: in instantiation of member function 'Upp::Function<bool ()>::Wrapper<Upp::CallbackN<> >::Wrapper' requested here
 (): template <class F> Function(F fn)          { ptr = new  W rapper<F>(pick(fn)); }
/home/phantom/upp.src/bazaar/Controls4U_Demo/main.cpp (79): note: in instantiation of function template specialization 'Upp::Function<bool ()>::Function<Upp::CallbackN<> >' requested here
 (): FileName.WhenChange =  T HISBACK(OnNewFile);
/home/phantom/upp.src/uppsrc/Core/Callback.h (109): note: expanded from macro 'THISBACK'
 (): #define THISBACK(x)                  c allback(this, &CLASSNAME::x)
 (): 1 warning and 1 error generated.
```

Subject: Re: Controls4U_Demo not compiling on Linux
Posted by aquilarubra on Wed, 23 Sep 2020 11:22:45 GMT
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I updated my post. It's the Controls4U_Demo not compiling, not the Controls4U widgets.

Subject: Re: Controls4U_Demo not compiling on Linux
Posted by koldo on Wed, 23 Sep 2020 18:28:48 GMT
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Dear Aquilarubra

Weird error, thank you to report.
No problem found until now with W10 or Ubuntu, MSC, GCC or CLANG.

I have replaced
```
  fileName.WhenChange = THISBACK(OnNewFile);
```
with
```
  fileName.WhenChange = [=]{return OnNewFile();};
```

You have got an error "cannot ... return object ... 'bool' with ... type 'void'

OnNewFile() returns bool instead of void but, I thought it should work.