
Subject: Deprecating THISBACK

Posted by [Klugier](#) on Mon, 12 Oct 2020 20:31:33 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hello,

I had the discussion with Mirek about this article <https://evileg.com/en/post/629/> he found that the user uses deprecated THISBACK construction. Well we deprecated it in the documentation in favor of lambdas or newer C++ constructions such as Function, Gate etc.

In C++14 which we target on all platforms the solution is easy. We can deprecate it on compilation level, which means something. Just mark THISBACK with deprecated attribute like this:

```
[[deprecated("THISBACK is deprecated use lambda instead.")]]  
const int thisbackd = 0;
```

```
#define THISBACK(x)          callback(this + thisbackd, &CLASSNAME::x)  
#define THISBACK1(x, arg)    callback1(this + thisbackd, &CLASSNAME::x, arg)  
#define THISBACK2(m, a, b)    callback2(this + thisbackd, &CLASSNAME::m, a, b)  
#define THISBACK3(m, a, b, c)  callback3(this + thisbackd, &CLASSNAME::m, a, b, c)  
#define THISBACK4(m, a, b, c, d) callback4(this + thisbackd, &CLASSNAME::m, a, b, c, d)  
#define THISBACK5(m, a, b, c, d, e) callback5(this + thisbackd, &CLASSNAME::m, a, b, c, d, e)
```

Then in all places when THISBACK is used the warning pops up
"/home/klugier/upp/uppsrc/CtrlLib/FileSel.h (239): warning: 'thisbackd' is deprecated: THISBACK is deprecated use lambda instead. [-Wdeprecated-declarations]".

If you are not aware how you should replace thisback. Example below:

```
void MyWindow::ErrorMenu(Bar& bar)  
    // bar.Add("Copy all", THISBACK1(CopyError, true));  
    bar.Add("Copy all", [=] { CopyError(true); });  
  
    // In the header file no need for "typedef MyWindow CLASSNAME" declaration...
```

I think we have multiple places when `[[deprecated]]` macro can be used. If you search for "deprecated" in uppsrc then there is around 52 entries... Definitely not the topic for 2020.2, but for 2021.1...

Klugier
