Subject: Re: THISBACK and inheritance Posted by mirek on Wed, 05 Jul 2017 12:07:18 GMT View Forum Message <> Reply to Message

rafiwui wrote on Mon, 03 July 2017 16:15I had an interesting issue with a MenuBar and a THISBACK.

I made three classes: MenuBarWindow, FnWindow and MyWindow.

- MenuBarWindow only has the MenuBar attribute and the method I want as its callback.

- FnWindow inherits from MenuBarWindow and has some buttons for the F1-F8 keys and the corresponding callback methods.

- MyWindow inherits from FnWindow and is the main window in my application.

Here is an example code:

class MenuBarWindow : public TopWindow

{

protected:

MenuBar m_menuBar;

public:

```
typedef MenuBarWindow CLASSNAME;
MenuBarWindow(int _sizeX, int _sizeY);
```

protected:

```
virtual void MenuBarMain(Bar& _bar) = 0;
```

};

```
MenuBarWindow::MenuBarWindow(int _sizeX, int _sizeY)
```

{

```
SetRect(0, 0, Zx(_sizeX), Zy(_sizeY + m_menuBar.GetStdHeight(m_menuBar.GetFont())));
AddFrame(m_menuBar);
m_menuBar.Set(THISBACK(MenuBarMain));
```

}

```
class FnWindow : public MenuBarWIndow 
{
protected:
```

Button b_fn1; // ... Button b_fn8;

public:

typedef FnWindow CLASSNAME; FnWindow(int _sizeX, int _sizeY);

private:

```
virtual void OnClickFn1() = 0;
```

```
// ...
  virtual void OnClickFn8() = 0;
};
FnWindow::FnWindow(int _sizeX, int _sizeY)
  : MenuBarWindow(_sizeX, _sizeY)
{
  // Adding buttons here...
  b fn1 <<= THISBACK(OnClickFn1);</pre>
  // ...
  b fn8 <<= THISBACK(OnClickFn8);</pre>
}
// MyWindow header...
MyWindow::MyWindow(int _sizeX, int _sizeY)
  : FnWindow( sizeX, sizeY)
{
  // do sth...
}
```

In the MyWindow files are declarations and definitions for the virtual methods.

If I run this the program stops and shows me this and exits the application when you continue:

If I remove virtual void MenuBarMain(Bar& _bar) = 0; and move m_menuBar.Set(THISBACK(MenuBarMain)); from MenuBarWindow to MyWindow everything works fine.

At first I thought this is because the method is pure virtual and needs an implementation in the class from where I call it or use THISBACK but then I should get this strange behaviour after my changes as well because I do the same with the button callbacks but they work perfectly.

So does anyone has an idea why this is happening? Is this a generell C++ thing or is it a U++ thing?

I see nothing wrong. Please, as this really looks like a small package experiment, follow the suggestion and compress the whole package and attach it to the post so that we can test it quickly.

Mirek