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Subject: ToolBar Callback weirdness

Posted by [Alboni](#) on Fri, 27 Jan 2012 23:48:36 GMT

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I created the next example to show off a problem I'm having with my app: (project added in zipfile)

For some reason the variable 'tool' is always 1 in the function ToolBarContent (callback for filling the toolbar) while it has the correct values everywhere else.

Is there some multithreading issue going on? I tried making 'tool' volatile but that didn't help.

Changing to multithreading library didn't change it either.

(I use Visual C++ 2010 Express)

-----example-----

```
#include <CtrlLib/CtrlLib.h>
```

```
using namespace Upp;
```

```
#define IMAGEFILE <bartest/bartest.iml>
```

```
#define IMAGECLASS bartest
```

```
#include <Draw/iml.h>
```

```
struct BarTest: TopWindow {
```

```
    ToolBar toolbar;
```

```
    int tool;
```

```
typedef BarTest CLASSNAME;
```

```
BarTest()
```

```
{
    tool=1;
    AddFrame(toolbar.Left());
    toolbar.Set(THISBACK(ToolBarContent));
}
```

```
virtual void Paint(Draw& w)
```

```
{
    char s[80];
    w.DrawRect(GetSize(), Gray());
    sprintf(s, "tool=%d", tool); // yeah I know
    w.DrawText(200, 220, s);
}
```

```
void MoveClicked()
```

```
{
    tool=1;
    Refresh();
}
```

```

void RotateClicked()
{
    tool=2;
    Refresh();
}

void ToolBarContent(Bar& bar)
{
    bar.Add("Move", bartest::move(), THISBACK(MoveClicked)).Check(tool==1);
    bar.Add("Rotate", bartest::rotate(), THISBACK(RotateClicked)).Check(tool==2);
}
};

```

```

GUI_APP_MAIN
{
    BarTest().Run();
}

```

## File Attachments

1) [bartest.zip](#), downloaded 423 times

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Subject: Re: ToolBar Callback weirdness  
 Posted by [mirek](#) on Sat, 28 Jan 2012 13:19:21 GMT  
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You have to 'refresh' toolbar explicitly by setting it again after making any changes to it:

```

struct BarTest: TopWindow {
    ToolBar toolbar;
    int tool;

    typedef BarTest CLASSNAME;

    void SetBar()
    {
        toolbar.Set(THISBACK(ToolBarContent));
    }

    BarTest()
    {
        tool = 1;
        AddFrame(toolbar.Left());
    }
}

```

```
SetBar();
}

virtual void Paint(Draw& w)
{
w.DrawRect(GetSize(), Gray());
w.DrawText(200, 220, AsString(tool));
}

void SetTool(int t)
{
tool = t;
Refresh();
SetBar();
}

void ToolBarContent(Bar& bar)
{
bar.Add("Move", CtrlImg::reporticon(), THISBACK1(SetTool, 1))
    .Check(tool == 1);
bar.Add("Rotate", CtrlImg::reporticon(), THISBACK1(SetTool, 2))
    .Check(tool == 2);
}
};
```

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Subject: Re: ToolBar Callback weirdness  
Posted by [Alboni](#) on Sat, 28 Jan 2012 15:56:15 GMT  
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Ah, thanks! Now it works.  
I thought "toolbar.Refresh();" would be enough.

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