
Subject: TabCtrl.WhenSet is called when app closes
Posted by [pvictor](#) on Tue, 05 Mar 2024 06:40:02 GMT
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Hi!

Here's a testcase:

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

using namespace Upp;

struct Tab0: ParentCtrl {
    Button bt;
    Tab0() { Add(bt.SetLabel("Bt 0").LeftPos(10,100).TopPosZ(10,20)); }
};

struct Tab1: ParentCtrl {
    Button bt;
    Tab1() { Add(bt.SetLabel("Bt 1").LeftPos(10,100).TopPosZ(10,20)); }
};

struct Tab2: ParentCtrl {
    Button bt;
    Tab2() { Add(bt.SetLabel("Bt 2").LeftPos(10,100).TopPosZ(10,20)); }
};

struct Test: TopWindow {
    TabCtrl Tabs;
    Tab0 tab0;
    Tab1 tab1;
    Tab2 tab2;
    Test() {
        SetRect(0, 0, 640, 480);
        Add(Tabs.SizePos());
        Tabs.Add(tab0.SizePos(), "Tab 0");
        Tabs.Add(tab1.SizePos(), "Tab 1");
        Tabs.Add(tab2.SizePos(), "Tab 2");
        Tabs.WhenSet = [this] {
            switch (Tabs.Get()) {
                case 0: ErrorOK("Tab 0"); break;
                case 1: ErrorOK("Tab 1"); break;
                case 2: ErrorOK("Tab 2");
            }
        };
        // WhenClose = [this] { Tabs.WhenSet=NULL; Close(); }; // this helps to prevent unwanted events
    }
};
```

```
GUI_APP_MAIN {
    Test().Run();
}
```

When closing the window, I at first get three WhenSet events (one for each tab).
This happens both on Windows and Linux.

Best regards,
Victor

Subject: Re: TabCtrl.WhenSet is called when app closes
Posted by [koldo](#) on Sun, 10 Mar 2024 21:01:14 GMT

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Hi Victor

I am surprised. I have reduced your sample to the minimum, but I cannot answer why
TabCtrl::WhenSet() is called when the window is closed.
I would be grateful if someone could lend a hand.

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

using namespace Upp;

struct Test: TopWindow {
    TabCtrl tabs;
    StaticRect tab0, tab1;
    Test() {
        Add(tabs.SizePos());
        tabs.Add(tab0.SizePos(), "Tab 0");
        tabs.Add(tab1.SizePos(), "Tab 1");
        tabs.WhenSet = [&] {PromptOK(Format("Tab %d set", tabs.Get()));};
    }
};

GUI_APP_MAIN {
    Test().Run();
}
```

Subject: Re: TabCtrl.WhenSet is called when app closes
Posted by [koldo](#) on Mon, 11 Mar 2024 07:45:39 GMT

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Hi Victor

As I didn't understand what was going on, I looked at what I had done in my programmes. The trick is to add the RejectBreak() as indicated in your Close():

```
virtual void Close() {  
    RejectBreak(IDOK);  
    TopWindow::Close();  
}
```

I always do this, to prevent a blank field (an EditInt for example) from blocking the program from closing.

To Mirek: The problem with the program is that in TopWindow::Close(), Ctrl::InLoop() returns true, and then, TopWindow::DefaultBreak() calls AcceptBreak(IDOK). THis calls TopWindow::Accept() of all children. And as TabCtrl::Accept() calls the Set() of all children, the WhenSet is activated...
