Subject: TabCtrl crash in debug mode when using remove method
Posted by Didier on Wed, 21 Oct 2009 22:14:32 GMT
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Hello,

In my app I use TabCtrl. I add and remove tabs dynamically but there seems to be a bug: when the app is compiled in DEBUG mode it crashes when the last tab gets removed.

I looked in the debugger and it crashes in the following sequence:

Upp::AssertFailed (file=0x8296f14 "/home/didier/upphg/uppsrc/Core/Vcont.h", line=17, cond=0x8296f79 "i >= 0 && i < items") at /home/didier/upphg/uppsrc/Core/Util.cpp:86
Upp::Vector<void*>::Get (this=0xbfffdbe8, i=0) at /home/didier/upphg/uppsrc/Core/Vcont.h:17
Upp::Vector<void*>::operator[] (this=0xbfffdbe8, i=0) at /home/didier/upphg/uppsrc/Core/Vcont.h:32
Upp::Array<Upp::TabCtrl::Item>::Get (this=0xbfffdbe4, i=0) at /home/didier/upphg/uppsrc/Core/Vcont.h:132
Upp::Array<Upp::TabCtrl::Item>::operator[] (this=0xbfffdbe4, i=0) at /home/didier/upphg/uppsrc/Core/Vcont.h:144
Upp::TabCtrl::ScrollInto (this=0xbfffdb78, i=0) at /home/didier/upphg/uppsrc/CtrlLib/TabCtrl.cpp:257
Upp::TabCtrl::Layout (this=0xbfffdb78) at /home/didier/upphg/uppsrc/CtrlLib/TabCtrl.cpp:139
Upp::TabCtrl::Remove (this=0xbfffdb78, i=0) at /home/didier/upphg/uppsrc/CtrlLib/TabCtrl.cpp:401
testOnglet::closeOnglet (this=0xbfffda5c) at /home/didier/upphg/MyApps/testOnglet/main.cpp:34

The vector::get() statement crashes because we try to remove element '0' while there are no more elements in vector (items = 0)

When compiling in OPTIMAL mode, everything seems to be OK.

I joined a test app:
compil in DEBUG, Launch and press the close button 3 times (until last tab gets removed)
==> crash when trying to close last tab ?????

File Attachments
1) testOnglet.zip, downloaded 540 times

Subject: Re: TabCtrl crash in debug mode when using remove method
Posted by Didier on Thu, 22 Oct 2009 19:39:44 GMT
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I found the bug

in TabCtrl.cpp Line 139

replace
ScrollInto(sel);

with
if (sel < tab.GetCount()) ScrollInto(sel);

Subject: Re: TabCtrl crash in debug mode when using remove method
Posted by mirek on Sat, 24 Oct 2009 08:48:52 GMT
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Thank you, indeed, empty TabCtrl was not supported...

Two other notes about the code:

It leaves memory leaks. In real code, I think for dynamic tabs, you would want to use Array to store tabs. Remember, avoid 'new' and 'delete' whenever possible...

Also, setting frame for StatusBar breaks the visuals for bottom right resizing handle.

Mirek

Subject: Re: TabCtrl crash in debug mode when using remove method
Posted by Didier on Sat, 24 Oct 2009 18:55:19 GMT
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Hi Mirek,

Thanks for your reply.

Quote:It leaves memory leaks. In real code, I think for dynamic tabs, you would want to use Array to store tabs. Remember, avoid 'new' and 'delete' whenever possible...
The code presented in the test case was only to demonstrate the problem and is "no good" for anything else
In my real app all the delete stuff is managed and absolutely necessary.

Quote:Also, setting frame for StatusBar breaks the visuals for bottom right resizing handle.
I have to admit that this one has been tickling me for a bunch of time. But since it wasn't really critical I never really took time to solve it. I guess you saved me time, thanks