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Subject: WindowProc invoked while in Paint routine  
Posted by [NeilMonday](#) on Wed, 24 Jul 2013 20:23:42 GMT  
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I asked this in the newbie forum, but did not receive much of a response, so I thought I would try posting here.

I have an error, and cannot track down the solution. My application keeps asserting on line 86 of Win32Proc.cpp when I click on an Option control:

```
ASSERT_(!painting, "WindowProc invoked while in Paint routine");
```

I imagine this is because something is taking a long time to paint, or because `painting` is not being set to false when it is done.

This happens when I check a checkbox on a custom control, but there is nothing in the stack trace that references one of my classes.

Here is the stack trace:

```
Upp::AssertFailed...  
Upp::Ctrl::WindowProc(533, 0, 0)  
Upp::TopWindow::WindowProc(533, 0, 0)  
Upp::Ctrl::WindowProc(hWnd, 533, 0, 0)  
Upp::Ctrl::Refresh(x=17129912, y=1997078640, cx=22383264, cy=0);  
_find(key=0, base=1056210...)
```

This `_find()` entry shows up in the stack trace about 14 times and is then followed by more `Upp::Ctrl` and `Upp::Callbacks`.

I am not really sure what else to post, so let me know what other info you would like to see. I am a bit lost here.

Here is some of my code:

First, here are a couple of helper classes that I am using:

```
class OptionWithKey : public Option  
{  
    typedef OptionWithKey CLASSNAME;  
  
public:  
    Callback1<int> WhenOptionWithKey;  
  
    DEF_VAR(OptionWithKey&, Key, int, key, *this);  
  
public:  
    OptionWithKey() : key(-1) { WhenAction = THISBACK(OnOptionAction); }
```

```

private:
    void OnOptionAction() { WhenOptionWithKey(key); }
};

class OptionWithKeyArrayMap : public ArrayMap<int, OptionWithKey>
{
    typedef OptionWithKeyArrayMap CLASSNAME;

public:
    Callback1<int> WhenOption;

public:
    OptionWithKey& Add(int key)
    {
        OptionWithKey& option = ArrayMap<int, OptionWithKey>::Add(key);
        option.Key(key);
        option.WhenOptionWithKey = THISBACK(OnOptionAction);
        return option;
    }

private:
    void OnOptionAction(int key) { WhenOption(key); }
};

```

I have a class that inherits from ChartCtrl called ANBarGraph:

```

class ANBarGraph : public ChartCtrl
{
    typedef ANBarGraph CLASSNAME;

...

public:
    OptionWithKeyArrayMap instructorOptionArray;
private:
    void OnInstructorTrigger(int key);

...
};

```

In the constructor, I set the callback for the instructorOptionArray:

```

ANBarGraph::ANBarGraph()
{
    instructorOptionArray.WhenOption = THISBACK(OnInstructorTrigger);
}

```

I have a SetData function that sets up the instructorOptionArray:

```

void ANBarGraph::SetData(...)
{
...
    if (instructorOptionArray.Find(baseKey) < 0)
    {
        OptionWithKey& option = instructorOptionArray.Add(baseKey);
        option.Set(0).NoNotNull().SetLabel(t_("Instructor
trigger")).SetFont(SansSerif(14)).SetFrame(ThinInsetFrame());
    }
...
    if (instructorOptionArray.Find(groupKey) < 0)
    {
        OptionWithKey& option = instructorOptionArray.Add(groupKey);
        option.Set(0);
        groupInfo.triggerState =
ATaS::ANGroupInfo::TriggerState(int(instructorOptionArray.Get(groupKey)));
    }
}

```

I have found out that the problem happens in between the Pusher::LeftDown() and Pusher::LeftUp(). If I click the checkbox and hold the left mouse button down, the ASSERT gets hit before I release the mouse button.

I have a breakpoint set in "OnInstructorTrigger(int key)" function, but when I click the checkbox, it hits the ASSERT before it gets to the callback.

One thing that I saw that was strange is that the Refresh call always has huge numbers for x, y, and cx. While cy is always 0.

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Subject: Re: WindowProc invoked while in Paint routine

Posted by [mirek](#) on Mon, 29 Jul 2013 17:38:07 GMT

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Well, this happens when you start message processing from Paint routine.

Typical example:

```

void MyApp::Paint(Draw& w)
{
    Progress pi;
    for(...) {
        pi.StepCanceled();
    }
}

```

The problem is that Win32 (not U++) does not handle this well, that is why it is checked.

While above example might seem obvious, I usually hit this error if Paint uses some sort of cached/lazy loaded data and loading of this data attempts to show the progress.

Mirek

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