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Subject: Bug: TopMost blocks Prompt dialog  
Posted by [mrjt](#) on Fri, 24 Oct 2008 14:04:05 GMT

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The problem:

- You have a child window (opened with `TopWindow::Open(this)`) with `TopMost(true, true)` set.
- The parent window opens a Prompt (PromptOK etc)
- If the TopMost child window is in the center of the parent (where the Prompt will appear) then the prompt dialog is invisible, hidden behind the child window.
- Because the prompt is run with `RunAppModal` it is not possible to move the child window to reveal it, effectively locking up the application. You can hit return/escape to clear it but that's not ideal as the user may not even realise a prompt has been opened.

This is only a fatal problem on Windows, as on X11 the WM still allows you to move windows even with an AppModal dialog running.

My fix:

Setting TopMost on the prompt dialog before it's opened seems to fix it.

Test package attached. Tested against the svn version (2008.1 is actually worse since you can't even use return/escape to clear the prompt)

### File Attachments

1) [CtrlLibTest.zip](#), downloaded 485 times

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Subject: Re: Bug: TopMost blocks Prompt dialog  
Posted by [mirek](#) on Fri, 31 Oct 2008 14:21:43 GMT

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mrjt wrote on Fri, 24 October 2008 10:04The problem:

- You have a child window (opened with `TopWindow::Open(this)`) with `TopMost(true, true)` set.
- The parent window opens a Prompt (PromptOK etc)
- If the TopMost child window is in the center of the parent (where the Prompt will appear) then the prompt dialog is invisible, hidden behind the child window.
- Because the prompt is run with `RunAppModal` it is not possible to move the child window to reveal it, effectively locking up the application. You can hit return/escape to clear it but that's not ideal as the user may not even realise a prompt has been opened.

This is only a fatal problem on Windows, as on X11 the WM still allows you to move windows even with an AppModal dialog running.

My fix:

Setting TopMost on the prompt dialog before it's opened seems to fix it.

Test package attached. Tested against the svn version (2008.1 is actually worse since you can't even use return/escape to clear the prompt)

Well, this is one little nast problem...

The problem is that TopMost in Prompt in all cases does not sound too good from user perspective. IMO, user still wants to see some other app else when Prompt appears.

In the end, I have used this desperate solution:

```
dlg.Open();
Vector<Ctrl *> wins = Ctrl::GetTopWindows();
for(int i = 0; i < wins.GetCount(); i++) {
    TopWindow *w = dynamic_cast<TopWindow *>(wins[i]);
    if(w->GetScreenRect().Intersects(dlg.GetScreenRect()) && w->IsTopMost()) {
        dlg.TopMost();
        break;
    }
}
dlg.Title(title);
return dlg.RunAppModal();
```

Mirek

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Subject: Re: Bug: TopMost blocks Prompt dialog  
Posted by [mrjt](#) on Fri, 13 Mar 2009 13:09:03 GMT  
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luzr wrote on Fri, 31 October 2008 14:21  
In the end, I have used this desperate solution:

```
dlg.Open();
Vector<Ctrl *> wins = Ctrl::GetTopWindows();
for(int i = 0; i < wins.GetCount(); i++) {
    TopWindow *w = dynamic_cast<TopWindow *>(wins[i]);
    if(w->GetScreenRect().Intersects(dlg.GetScreenRect()) && w->IsTopMost()) {
        dlg.TopMost();
        break;
    }
}
dlg.Title(title);
return dlg.RunAppModal();
```

Mirek

I've discovered that this doesn't work on X11. For whatever reason TopMost must be set before the window opens. On Win32 however, it only works the other way round

I changed my version to:

```
#ifdef PLATFORM_WIN32
    dlg.Open();
#endif
Vector<Ctrl *> wins = Ctrl::GetTopWindows();
for(int i = 0; i < wins.GetCount(); i++) {
    TopWindow *w = dynamic_cast<TopWindow *>(wins[i]);
    if(w && w->GetScreenRect().Intersects(dlg.GetScreenRect()) && w->IsTopMost()) {
        dlg.TopMost();
        break;
    }
}
#endif
#ifdef PLATFORM_X11
    dlg.Open();
#endif
```

but obviously that's a bit of a horrible bodge.

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Subject: Re: Bug: TopMost blocks Prompt dialog  
Posted by [mirek](#) on Mon, 16 Mar 2009 09:53:08 GMT

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Well, maybe we should just put "TopMost" to Prompt when \*any\* of owned windows has "TopMost" ?

Mirek

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Subject: Re: Bug: TopMost blocks Prompt dialog  
Posted by [mrjt](#) on Mon, 16 Mar 2009 10:46:32 GMT

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luzr wrote on Mon, 16 March 2009 09:53Well, maybe we should just put "TopMost" to Prompt when \*any\* of owned windows has "TopMost" ?

Mirek

That seems perfectly reasonable, although the previous solution also works fine providing TopMost is called at the correct place.

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Subject: Re: Bug: TopMost blocks Prompt dialog  
Posted by [mirek](#) on Thu, 19 Mar 2009 22:00:04 GMT

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mrjt wrote on Mon, 16 March 2009 06:46luzr wrote on Mon, 16 March 2009 09:53Well, maybe we should just put "TopMost" to Prompt when \*any\* of owned windows has "TopMost" ?

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Mirek

That seems perfectly reasonable, although the previous solution also works fine providing TopMost is called at the correct place.

Well, it cries "implementation defined / undefined" to me

I have removed checking the Rect in trunk version, for now. I hope it will work OK. (You might want to check, perhaps

Mirek

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