
Subject: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [ebojd](#) on Sat, 27 Jan 2007 01:36:33 GMT

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Hello all,

I am having problems with popup and pulldown menus on the IDE and all examples both with precompiled versions (upp-linux386-605) and compiling (upp-src-2007.1beta, upp-src-2007.1beta2, upp-0.701.1, and directly from the SVN tree with borrowed Makefiles from the linux version).

The basic problem is all popup and pulldown menus disappear as soon as I attempted to move into them from the direction of the original click, but will allow to enter them by first moving away and entering them from a different side than the closest. As an example, if I choose the AddressBook demo I can only get it to build by either using the F7 hot-key or by clicking on build, moving up and away from the pulldown list (without moving the mouse over Debug, Assist, or Setup), and then move into the list from the side or below. Similar behavior occurs with popups. My guess is that there is a logical flip somewhere in the menu code.

Anyone have ideas what's going on before I start wading through the code with a debugger?

BTW, I am running Gentoo-Linux(2.6.18-r6), gcc(4.1.1), xorg-x11(7.1), kde(3.5.5)

Thanks,

EBo --

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [ebojd](#) on Mon, 29 Jan 2007 14:06:43 GMT

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Hello all,

Since I have had no reply in a few days I thought I would post a hack that is helping some...

Looking in the code I found that GetKbdDelay() was passed into SetTimeCallback at or near line 326 of CtrlMouse.cpp. In X11App.cpp (line 366), it is hard coded to 250ms, and the GetKbdSpeed is likewise hard coded at 25. I bumped the callback time delay up, and it seemed to help some. As a note, there are numerous postings regarding Gnome/KDE development where they have attempted to address this (see http://lists.kde.org/?l=kde-accessibility&m=105268584821_487&w=2 for example). I do not know how they correct this, but the windows implementation is considerably more sophisticated than the hardcoded values.

But I think the real problem is that the mouse is not inside the bounding box/rectangle of the menu button or during a click within an active window. To test this I modified DispatchMouse() and

added 5 pxels to the x and y values of the pointer. This is a total hack, but things work mostly better. The menus stay up for awhile, and behave mostly as I expect. They still terminate a little early sometimes, but it is essentially workable now.

Thanks and best regards,

EBo --

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [mirek](#) on Wed, 31 Jan 2007 08:52:59 GMT

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ebojd wrote on Mon, 29 January 2007 09:06Hello all,

Since I have had no reply in a few days I thought I would post a hack that is helping some...

Looking in the code I found that GetKbdDelay() was passed into SetTimeCallback at or near line 326 of CtrlMouse.cpp. In X11App.cpp (line 366), it is hard coded to 250ms, and the GetKbdSpeed is likewise hard coded at 25.

Correct. And it is true this should be improved. Anyway, how this can be related to popups?

Quote:

But I think the real problem is that the mouse is not inside the bounding box/rectangle of the menu button or during a click within an active window. To test this I modified DispatchMouse() and added 5 pxels to the x and y values of the pointer. This is a total hack, but things work mostly better. The menus stay up for awhile, and behave mostly as I expect. They still terminate a little early sometimes, but it is essentially workable now.

Interesting.

Well, I have to apologize to not responding sooner (due to limited time, I was recently responding just to library issues; this is the library issue but placed into the wrong forum...).

Recently I tried to install KDE on my ubuntu to reproduce the behaviour, but everything seems OK so far.

Anyway, the possible problem is with X11 focus settings... There is a behaviour setting in KDE I guess, are not you using something like "Focus follows the mouse"?

Mirek

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [ebojd](#) on Wed, 31 Jan 2007 10:12:37 GMT

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oops. Sorry to have posted in the incorrect forum... Hopefully after awhile I will know my way around. I'll continue this here unless you want it moved.

> Correct. And it is true this should be improved. Anyway,
> how this can be related to popups?

Well, it probably shouldn't, but when I was poking at things I noticed that this was hardcoded and less than what was set for wince. When I bumped it up it actually seemed to help so I left and reported it for now.

> Anyway, the possible problem is with X11 focus settings...
> There is a behaviour setting in KDE I guess, are not you using
> something like "Focus follows the mouse"?

I expected it was X11 settings and played with them a little, but to no avail. I am currently using "Focus strictly under mouse", so will try setting it to "Focus under mouse" instead (after I get some sleep

Thanks again,

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [ebojd](#) on Wed, 31 Jan 2007 10:54:53 GMT

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I decided to remove my hacks and make a quick check before turing in for the night. Setting "Focus under mouse" instead of "Focus strictly under mouse" fixed the problem. It is interesting that I only have this weird popup/menu problem with upp and strict focus, and no other applications. That is probably a bug, but at least we can document it and possibly set up a debug procedure

Thanks Mirek!

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [mirek](#) on Wed, 31 Jan 2007 16:23:42 GMT

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Excellent, now I know where to look

BTW, those keyboard settings do not in fact affect keyboard, but scrollbar arrows - these timing constants are used for "autorepeat" there.

Mirek

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux
Posted by [mirek](#) on Wed, 31 Jan 2007 17:24:17 GMT
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Please, check this fix (before we roll out another beta):

CtrlCore/X11Wnd.cpp 637:

```
void Ctrl::FocusSync()
{
    Window fw = GetXServerFocusWindow();
    if(fw != focusWindow) {
        LLOG("FocusSync to " << FormatIntHex(fw));
        if(fw) {
            int q = Xwindow().Find(fw);
            if(q < 0)
                return;
            focusWindow = fw;
            XWindow& w = Xwindow()[q];
            if(w.ctrl) {
                if(w.ctrl->IsPopUp())
                    return;
                KillFocus(focusWindow);
                focusWindow = None;
                w.ctrl->SetFocusWnd();
                return;
            }
        }
        KillFocus(focusWindow);
        focusWindow = None;
    }
}
```

Mirek

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux
Posted by [ebojd](#) on Thu, 01 Feb 2007 06:55:02 GMT
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Thanks Mirek,

I just made the patch and will start playing with it tomorrow.

As a note, I made the previous hacks based on stepping through one of my apps with a debugger. I ended up running through a method that called those functions. I thought it was strange that it called them at all, but I tweaked a couple of things just to see if they made a difference -- which they did enough that I could work more effectively... Go figure...

Thanks again, and as I said I will test tomorrow.

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux
Posted by [ebojd](#) on Thu, 01 Feb 2007 17:16:53 GMT

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I've been running upp for several hours and the changes seem to work wonderfully.

Thanks Mirek!

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux
Posted by [ebojd](#) on Thu, 22 Mar 2007 20:00:50 GMT

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After rebuilding and installing U++ after all the GCC.bm problems I find that the popup problem has once again reared it's head. Wasn't this patch rolled into the source tree for RC3? If not, will it be added to RC4/final?

EBo --

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux
Posted by [mirek](#) on Sat, 24 Mar 2007 15:27:04 GMT

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Please, can you check the code listed here is in our sources?

Another possible explanation is that the fix is broken by another fix:)

BTW, this does not belong here, moving to appropriate forum.

Mirek

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux
Posted by [ebojd](#) on Mon, 26 Mar 2007 07:50:52 GMT

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Just checked the code, and yes it is in the source I compiled against. I'm not sure what changed to make it no longer work. My only guess is that when I had my personal copy of the uppsrc, etc., made to my ~/upp directory that something got confused when I upgraded...

Just a guess.

EBo --

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux
Posted by [mirek](#) on Mon, 26 Mar 2007 09:11:27 GMT

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ebojd wrote on Mon, 26 March 2007 03:50 Just checked the code, and yes it is in the source I compiled against. I'm not sure what changed to make it no longer work. My only guess is that when I had my personal copy of the uppsrc, etc., made to my ~/upp directory that something got confused when I upgraded...

Just a guess.

EBo --

The one related fix that could affect this is X11Proc.cpp 104:

```
case FocusOut:
    if(w.xic)
        XUnsetICFocus(w.xic);
    if(this == focusCtrlWnd) // this was
        KillFocusWnd(); // added
    break;
```

Please, check whether this matches your code and if it does, try to comment it out:

```
case FocusOut:
```

```
if(w.xic)
    XUnsetICFocus(w.xic);
// if(this == focusCtrlWnd) // this was
// KillFocusWnd(); // added
break;
```

and report the result...

Mirek

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux
Posted by [ebojd](#) on Mon, 26 Mar 2007 13:27:33 GMT
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luzr wrote on Mon, 26 March 2007 04:11

```
case FocusOut:
    if(w.xic)
        XUnsetICFocus(w.xic);
// if(this == focusCtrlWnd) // this was
// KillFocusWnd(); // added
break;
```

and report the result...

Mirek

Mirek,

Commenting out the these lines appeared to make a difference. I will recompile without this patch and see if the problem comes back...

EBo --

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux
Posted by [ebojd](#) on Mon, 26 Mar 2007 13:56:58 GMT
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Yep, I've verified that commenting out those last couple of lines fixed the problem, and compiled it back in just to double check...

Here's the patch:

```
--- uppsrc/CtrlCore/X11Proc.cpp 2007-03-06 23:01:46.000000000 -0500
+++ uppsrc/CtrlCore/X11Proc.cpp 2007-03-26 08:47:24.000000000 -0400
@@ -104,8 +104,8 @@
     case FocusOut:
         if(w.xic)
             XUnsetICFocus(w.xic);
-         if(this == focusCtrlWnd)
-             KillFocusWnd();
+//         if(this == focusCtrlWnd)
+//             KillFocusWnd();
         break;
     case KeyPress:
         pressed = true;
```

Thanks Mirek!

EBo --

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [mirek](#) on Mon, 26 Mar 2007 15:07:36 GMT

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ebojd wrote on Mon, 26 March 2007 09:56

Yep, I've verified that commenting out those last couple of lines fixed the problem, and compiled it back in just to double check...

Unfortunately, this is not the end of story, because it was an important bug fix (Without this, menu open in U++ does not get closed when you click e.g. system menu or another window).

I will have to figure out how to fix this fix...

Mirek

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [ebojd](#) on Mon, 26 Mar 2007 16:42:15 GMT

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DoH!

For now I can pull it out and set "focus under mouse" until we sort things...

Thanks,

EBo --

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [mirek](#) on Mon, 26 Mar 2007 18:39:31 GMT

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ebojd wrote on Mon, 26 March 2007 12:42DoH!

For now I can pull it out and set "focus under mouse" until we sort things...

Thanks,

EBo --

Unfortunately, that is not the solution for 2007.1... (I wish it was

Mirek

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [mirek](#) on Wed, 28 Mar 2007 12:45:49 GMT

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OK, I spent about 10 hours fixing this, I hope it is OK now.

In the end of day, I have used the "standard" solution for X11 - popup takes mouse capture and deactivates when user clicks outside.

This slightly changes PopUp interface - the parameter "active" has changed meaning, now "true" means user interaction is expected with popup (menu, drop lists), while "false" means popup is static (tooltip).

Mirek

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [ebojd](#) on Wed, 28 Mar 2007 15:31:47 GMT

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Thanks Mirek,

The experimental code (in Uvs) appears to have fixed it. Once the changes are setted on and posted to rc4 or 2007.1 final I'll post a new gentoo ebuild.

Thanks for the quick turnarround and great wotk!

EBo --

Subject: Re: problems with popup/pulldown menus on Gentoo/kde linux

Posted by [ebojd](#) on Mon, 02 Apr 2007 13:16:17 GMT

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Just a quick followup...

The patches now added to rc4 work and have been minimally tested under KDE/Gentoo for focus policies:

- * click to focus
- * focus follows mouse
- * focus under mouse
- * focus strictly under mouse

Thanks Mirek!

EBo --