Subject: Apps have high font zoom under Linux [FIXED]
Posted by cbpporter on Mon, 30 Jun 2008 19:51:59 GMT
View Forum Message <> Reply to Message

I never used U++ under Linux for anything more than seeing that it works and being happy that it's crossplatform. My main development area still targets Windows, but now I'm preparing and testing binaries for Linux distribution also.

and here I found a strange little problem. I downloaded the latest SVN deb package, installed it under openSUSE 11 (which is a rpm based distro), and everything works fine, except that all applications compiled by me look as if there is a font zooming active. Both font size and layouts are scaled and are quite large. TheIDE from the deb does not have this problem (nor does any other Gtk app), but if I compile my own TheIDE, it also gets the large fonts. Any idea how to fix this? I'll try an older stable deb tomorrow, to see if it still behaves this way.

Subject: Re: Apps have high font zoom under Linux
Posted by mirek on Tue, 01 Jul 2008 09:09:11 GMT
View Forum Message <> Reply to Message

Hm, what ide are you using?

Is this GTK or KDE?

Well, we are reading zooming factor from GTK, the code is in

CtrlLib/ChGtk.cpp 615

and is used in

CtrlCore/Ctrl.cpp 735

I believe that putting some nice LOGs there should reveal the problem.

Mirek

Subject: Re: Apps have high font zoom under Linux
Posted by cbpporter on Tue, 01 Jul 2008 14:58:59 GMT
View Forum Message <> Reply to Message

luzr wrote on Tue, 01 July 2008 12:09Hm, what ide are you using?

Is this GTK or KDE?

Well, we are reading zooming factor from GTK, the code is in

CtrlLib/ChGtk.cpp 615

and is used in

CtrlCore/Ctrl.cpp 735

I believe that putting some nice LOGs there should reveal the problem.

Mirek

I'm using KDE (3.x series and 4.0.4). I did the same test under Gnome (after I installed it) and IceWm, and both of them are issue free. I think it is related to the different Gtk theme imposed by KDE. It is strange how only applications compiled by me have the issue. Thanks for the locations. I'll try to see if some loging can help to identify the problem.

Another problem under KDE is that the system tray icon is not transparent. You can see this in the SystemTray reference package.

Subject: Re: Apps have high font zoom under Linux
Posted by captainc on Tue, 01 Jul 2008 18:57:18 GMT
View Forum Message <> Reply to Message

I am also experiencing this problem on Ubuntu 7.10 (Gnome).

Screenshot of hello world app attached.

File Attachments
1) UppLargeFontsHelloWorld.png, downloaded 743 times

File   Edit   Project   Build   Debug   Assist   Setup

↶ ↷ ☐ ✄ 🗐 📋 | GUI ▾ | ▾ GCC Debug ▾ | 🔧 🔧 | 🔧 | 🖼 ● C # ⤳ | ❓

File

About..
Exit

Welcome to the Ultimate++ !

Subject: Re: Apps have high font zoom under Linux
Posted by mirek on Wed, 02 Jul 2008 11:47:58 GMT

captainc wrote on Tue, 01 July 2008 14:57I am also experiencing this problem on Ubuntu 7.10 (Gnome).

Screenshot of hello world app attached.

Is not it possible you have differnt DPI settings in X11?

Mirek

Subject: Re: Apps have high font zoom under Linux
Posted by cbpporter on Wed, 02 Jul 2008 12:29:52 GMT

Ok, so the problem is in ChGtk line 616.

int xdpi = Nvl(GtkStyleInt("gtk-xft-dpi"), 72 * 1024);

GtkStyleInt is returning 98280, which is about 33% percent larger than the default, which has the right proportions. I need to track down why it is larger, but it is somewhat harder because I never worked with Gtk theme engine and have no idea where to find setting and stuff.

The style name is Gilouche 2.0.

Subject: Re: Apps have high font zoom under Linux
Posted by mirek on Thu, 03 Jul 2008 15:33:46 GMT

cbpporter wrote on Wed, 02 July 2008 08:29Ok, so the problem is in ChGtk line 616.

int xdpi = Nvl(GtkStyleInt("gtk-xft-dpi"), 72 * 1024);

GtkStyleInt is returning 98280, which is about 33% percent larger than the default, which has the right proportions. I need to track down why it is larger, but it is somewhat harder because I never worked with Gtk theme engine and have no idea where to find setting and stuff.

The style name is Gilouche 2.0.

Well, what does say

xdpyinfo|grep resolution

?

Mirek

Subject: Re: Apps have high font zoom under Linux
Posted by captainc on Thu, 03 Jul 2008 16:38:38 GMT

Mine:
resolution: 99x98 dots per inch

Subject: Re: Apps have high font zoom under Linux
Posted by Mindtraveller on Thu, 03 Jul 2008 17:50:21 GMT

same problem with big system fonts in TheIDE.
Platform: KDE 3.5.8, FreeBSD 6.3
U++ version: latest SVN, TheIDE itself is fresh-recompiled

xpdyinfo says:
Quote:resolution: 86x86 dots per inch

Posting sample screenshot with TheIDE and some other system application in foreground. Nothe the difference between font sizes:

```
File Attachments
1) upp-match.jpg, downloaded 1247 times
```

File Edit Project Build Debug Assist Setup

GUI

main.cpp

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

using namespace Upp;

struct MyAppWindow : TopWindow {
    Point  p;
    String text;

    virtual void LeftDown(Point
        p = pos;
        Refresh();
    }

    virtual void MouseMove(Point
        text = Format("[%d:%d]",
        Refresh();
    }

    virtual void Paint(Draw& w)
        w.DrawRect(GetSize(), SWh
        w.DrawText(p.x, p.y, tex
    }

    MyAppWindow() {
        Title("My application").
        p.x = p.y = 0;
    }
};

GUI_APP_MAIN
{
    MyAppWindow app;
    app.Run();
}
```

Show Browser++		Ctrl+B
File index		Ctrl+F12
File index search		F12
Navigate in the file..		Ctrl+G
Navigate..		Ctrl+J
Query..		Ctrl+Q
Query word		Ctrl+W
Show documentation for current C++ item...		F1
Go to symbol definition		Alt+J
Go to definition/declaration		Alt+I
Assist		Ctrl+Space
Copy as definition/declaration		Alt+C
Virtual methods..		Alt+V
THISBACKs..		Alt+T
Complete identifier		Ctrl+[,]
Rescan code		
Edit ignore list		
Calculator		Ctrl+E
Help Topics		F1
Search word in Help Topics		Ctrl+F1
About..		

Subject: Re: Apps have high font zoom under Linux
Posted by cbpporter on Fri, 04 Jul 2008 07:42:37 GMT
View Forum Message <> Reply to Message

luzr wrote on Thu, 03 July 2008 18:33
Well, what does say

xdpyinfo|grep resolution

It says 95x96 under both KDE and Gnome.

Subject: Re: Apps have high font zoom under Linux
Posted by mirek on Fri, 04 Jul 2008 11:26:23 GMT

cbpporter wrote on Wed, 02 July 2008 08:29Ok, so the problem is in ChGtk line 616.

int xdpi = Nvl(GtkStyleInt("gtk-xft-dpi"), 72 * 1024);

GtkStyleInt is returning 98280, which is about 33% percent larger than the default, which has the right proportions. I need to track down why it is larger, but it is somewhat harder because I never worked with Gtk theme engine and have no idea where to find setting and stuff.

The style name is Gilouche 2.0.

I have tried Gilouche, not problem spotted....

In the same time:

GtkStyleInt("gtk-xft-dpi") = 98304

but everything is still OK....

Mirek

Subject: Re: Apps have high font zoom under Linux
Posted by cbpporter on Fri, 04 Jul 2008 12:12:15 GMT

luzr wrote on Fri, 04 July 2008 14:26
I have tried Gilouche, not problem spotted....

In the same time:

GtkStyleInt("gtk-xft-dpi") = 98304

but everything is still OK....

Mirek

Strange. I guess it depends on the installed packages/configuration. I'll try on a fifferent computer with a different monitor/resolution, to see if it still behaves this way. I really don't know how to take this on or what other tests to run. Do you have any other ideas?

Not even Ctrl::NoLayoutZoom() seems to fully fix this. Some layout are Ok, others are still large, and fonts are still huge.

Subject: Re: Apps have high font zoom under Linux
Posted by mirek on Fri, 04 Jul 2008 12:19:21 GMT
View Forum Message <> Reply to Message

cbpporter wrote on Fri, 04 July 2008 08:12
Not even Ctrl::NoLayoutZoom() seems to fully fix this. Some layout are Ok, others are still large, and fonts are still huge.

Now this is possible clue.

Some layout withing single app? Or different apps?

BTW, have you tried debug/release?

What is LOG of "font_name" in ChGtk?

This is really pity - I think this should be fixed before the release. If I only could reproduce the problem...

Mirek

Subject: Re: Apps have high font zoom under Linux
Posted by cbpporter on Fri, 04 Jul 2008 12:35:00 GMT
View Forum Message <> Reply to Message

luzr wrote on Fri, 04 July 2008 15:19
Now this is possible clue.

Some layout withing single app? Or different apps?

I tried UWord, and all the layouts seem to be scaled correctlly when NoLayoutZoom is use, but other interface elements like Menus, Toolbars and the controls embedded inside are still large.

Quote:
BTW, have you tried debug/release?

I didn't manage to create a release binary before, because it couldn't find a lib in release mode. But I remembered the forum topic about enabling shared builds, and now it works. This should be

---

default by the way IMO.

And yes, release builds have no problems. I guess this solves the mystery why only applications compiled by me had zooming issues. Could others who reported this problem check to see if using release mode fixes the problem?

Quote:
What is LOG of "font_name" in ChGtk?

font_name is "FreeFreeFreeFree" with a lot more "Free"s in debug mode. I assume that this is not normal. In release it is "NET SUPPORTED".

Subject: Re: Apps have high font zoom under Linux
Posted by cbpporter on Fri, 04 Jul 2008 12:47:32 GMT
View Forum Message <> Reply to Message

cbpporter wrote on Fri, 04 July 2008 15:35
font_name is "FreeFreeFreeFree" with a lot more "Free"s in debug mode.

Yes, this is the problem!
const char* font_name = GtkStyleString("gtk-font-name");
But GtkStyleString returns String. Won't the temporary be destroyed?

Changing to:
String font_name = GtkStyleString("gtk-font-name");fixes the bug.

Subject: Re: Apps have high font zoom under Linux
Posted by mirek on Fri, 04 Jul 2008 13:43:48 GMT
View Forum Message <> Reply to Message

cbpporter wrote on Fri, 04 July 2008 08:47cbpporter wrote on Fri, 04 July 2008 15:35
font_name is "FreeFreeFreeFree" with a lot more "Free"s in debug mode.

Yes, this is the problem!
const char* font_name = GtkStyleString("gtk-font-name");
But GtkStyleString returns String. Won't the temporary be destroyed?

Changing to:
String font_name = GtkStyleString("gtk-font-name");fixes the bug.

OMG, I am really stupid sometimes...

BTW, maybe a reason why it worked in release

Mirek