Subject: U++ bug (freezed screen) related to Dual Display
Posted by Lance on Sun, 28 Apr 2024 02:57:16 GMT
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Sorry but I cannot find a proper category/topic to put it.

It has been bothering me for quite a while. Today I did a test with theide, the same problem happened.

Environment: Ubuntu Linux 22.04.04 LTS
Settings: Dual display with "Join Displays", i.e., as if two displays butt each other side by side.
Trigering: I don't know exactly. But just open theide with some package. Then go to do something else, like web browsing and completely forget about theide. After a while of like a few minutes, go back to theide, test if it happened. If not, go do something else and come back to test it again. And yes, it will happen.

Observation: The menu responds; resizing window, moving window all function properly. But the window fails to update itself.

See attached video for an idea.

BR,
Lance

File Attachments
1) Screencast from 2024-04-27 10:44:12 PM.webm, downloaded 301 times

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by mirek on Sun, 02 Jun 2024 15:51:44 GMT
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Hi,

sorry for the delay... Finally got to connecting 2 displays... Anyway, everything seems fine so far.

Are your displays of the same size?

Mirek

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by Lance on Sun, 02 Jun 2024 20:10:52 GMT
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Hi Mirek,

Thank you for your attention to this matter.

Yes, both my displays are of the same size.

I updated theide to version 17135 and did like half hour test, the problem seemed to disappear. I will keep testing to see if it come back again and if yes, what exactly triggers it.

BR,

Lance

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by Lance on Mon, 03 Jun 2024 02:45:38 GMT
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The problem remains. I cannot tell what exactly triggers it though. My application and some random project(bluebar this time) opened in theide were fine after left in background for hours. Then my laptop was put to suspension. As its resumed a while ago, theide was freezed, while my application remained functional.

See screenshot below.

File Attachments
1) Screencast from 2024-06-02 10:37:43 PM.webm, downloaded 260 times

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Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by mirek on Mon, 03 Jun 2024 09:15:33 GMT
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What if you maximize/minimize/resize the window? Anything changes?

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by Lance on Mon, 03 Jun 2024 12:12:19 GMT
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Minimize and maximize restore its previous drawings. Whatever visible comeback, whatever blurred remain blurred.

I had one more occurence, but this time the screencast file is too big to upload (5.1M) with full screen size.

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by Lance on Mon, 03 Jun 2024 12:14:00 GMT
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Same story. It happens when my laptop restored from suspension. Surprisingly my own application remains functional again.

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by mirek on Mon, 03 Jun 2024 14:43:16 GMT
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Lance wrote on Mon, 03 June 2024 14:14Same story. It happens when my laptop restored from suspension. Surprisingly my own application remains functional again.

Maybe it is rather related to suspension instead of multimonitor?

Mirek

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by Lance on Mon, 03 Jun 2024 16:20:12 GMT
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No.

Without dual monitors, it never occurs; with dual monitors, if I play long enough, it occurs without being put to suspension.

That's my observations from previous experience.

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by Lance on Tue, 04 Jun 2024 12:51:29 GMT
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Today after I restored my computer from suspension, both my applicaiton and theide w/bluebar are functional. My application has survived like 10 suspension/resume and lasted 3-4 days with dual monitors, never as persistent before. Then I played around, moving theide w/bluebar between monitors, etc. It remains fine, but my application suddenly failed. theide it runs from remains functional.

Update June 5 10:49EST: both theidew/BlueBar and my application survived multiple suspensions/restorations without issues. It's significantly stabler than it used to be(before my recent update to upp ver 17135).

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by Lance on Sat, 08 Jun 2024 23:52:35 GMT
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I likely find a definite way to lead to a dual-monitor bug.

Get the second monitor ready, but don't actually plug it in yet. Make sure the dual display setting is set to join displays though.

1. Open theide, open an main package that will enable ScrollBar in the code editor, e.g., BlueBar.

2. Plug in the second monitor (e.g., through HDMI), wait until the second monitor is up;

3. Go back the theide with BlueBar, try to play with the ScrollBar on the code editor, say, click on upper, click on bottom, dragging, click on upper and hold, click on bottom and hold. One will observe the ScrollBar no longer functions normally.

PS: restarted my computer and confirmed the above procedure will break the ScrollBar. Not sure if it's the root cause of my problem but may well be related.

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by mirek on Sun, 16 Jun 2024 17:39:50 GMT
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Well, adding / removing monitor while app is running leads me here:

CtrlCore/GtkWnd.cpp:221

```
Rect Ctrl::GetVirtualWorkArea()
{
 GuiLock __;
 static Rect r;
 if(r.right == 0) {
  r = GetPrimaryWorkArea();
  Array<Rect> rc;
  GetWorkArea(rc);
  for(int i = 0; i < rc.GetCount(); i++)
   r |= rc[i];
 }
 return r;
}

Rect Ctrl::GetVirtualScreenArea()
{
 GuiLock __;
 static Rect r;
```

```
 if(r.right == 0) {
  gint x, y, width, height;
  gdk_window_get_geometry(gdk_screen_get_root_window(gdk_screen_get_default()),
                          &x, &y, &width, &height);
     r = SCL(x, y, width, height);
 }
 return r;
}
```

- we only load geometry once

pls try to replace it with

```
Rect Ctrl::GetVirtualWorkArea()
{
 GuiLock __;
 Rect r;
  r = GetPrimaryWorkArea();
  Array<Rect> rc;
  GetWorkArea(rc);
  for(int i = 0; i < rc.GetCount(); i++)
   r |= rc[i];
 return r;
}

Rect Ctrl::GetVirtualScreenArea()
{
 GuiLock __;
 Rect r;
  gint x, y, width, height;
  gdk_window_get_geometry(gdk_screen_get_root_window(gdk_screen_get_default()),
                          &x, &y, &width, &height);
     r = SCL(x, y, width, height);
 return r;
}
```

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by Lance on Mon, 17 Jun 2024 19:04:38 GMT
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@Mirek Great, thanks! I will make the above modification and test again.

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by Lance on Mon, 17 Jun 2024 19:13:15 GMT
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Works like a charm! Highly suspect that it's the culprit for app freezing but I will keep watching. Thanks for the help!

July 2, 2024: I haven't tested it thoroughly or use it really extensively, but I haven't encounter a freeze ever since I adopted the changes provided by Mirek. I believe the problem is solved thereby.

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by Lance on Sun, 06 Oct 2024 12:53:46 GMT
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I have encountered more than one occasion when theide freezed again in dual monitor situation. Looks like the previous patch fixed ScrollBar erratic behavior (only).

It doesn't bother me that much as it's not so frequent. Also it's really hard to discover the triggering condition. Just want ot bring awareness to the continued existence of the issue.

Subject: Re: U++ bug (freezed screen) related to Dual Display
Posted by mirek on Sun, 06 Oct 2024 22:35:08 GMT
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Lance wrote on Sun, 06 October 2024 14:53I have encountered more than one occasion when theide freezed again in dual monitor situation. Looks like the previous patch fixed ScrollBar erratic behavior (only).

It doesn't bother me that much as it's not so frequent. Also it's really hard to discover the triggering condition. Just want ot bring awareness to the continued existence of the issue.

Can it be related to "megarect" fix? https://www.ultimatepp.org/forums/index.php?t=msg&th=12340&start=0&