

U++ - Bug #624

Gtk backend warning: g_thread_init is deprecated

12/30/2013 06:57 PM - Zbigniew Rebacz

Status:	Approved	Start date:	12/30/2013
Priority:	Normal	Due date:	
Assignee:	Zbigniew Rebacz	% Done:	0%
Category:	CtrlCore	Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
It seems that we use deprecated gtk function for initializing threads. After 2.32 gtk version, multithreading is enable by default. So we need to check gtk version to avoid this warning (GtkApp.cpp - line 29): <pre>#if GLIB_MAJOR_VERSION <= 2 && GLIB_MINOR_VERSION < 32 if(!g_thread_supported()) g_thread_init(NULL); #endif</pre>			

History

#1 - 01/06/2014 04:26 PM - Miroslav Fidler

- Status changed from Patch ready to Approved

#2 - 01/08/2014 04:08 PM - Zbigniew Rebacz

- Status changed from Approved to Patch ready

Can we change #if statement to more readable:

```
#if GTK_CHECK_VERSION(2, 32, 0)
    if(!g_thread_supported())
        g_thread_init( NULL );
#endif
```

#3 - 01/08/2014 08:27 PM - Miroslav Fidler

- Status changed from Patch ready to In Progress

- Assignee changed from Miroslav Fidler to Zbigniew Rebacz

I believe that proposed change is wrong. Should not it be rather

```
#if !GTK_CHECK_VERSION(2, 32, 0)
```

?

#4 - 01/08/2014 08:34 PM - Miroslav Fidler

(speaking of which, original patch is wrong as well, think about version 1.40....)

#5 - 01/08/2014 10:53 PM - Zbigniew Rebacz

- Status changed from In Progress to Patch ready

- Assignee changed from Zbigniew Rebacz to Miroslav Fidler

Sorry for the mess.

I don't know why following expression: "#if !GTK_CHECK_VERSION(2, 32, 0)" is always true on my platform (latest Kubuntu version). I have glib version: 2.38.1.

I think we should change this to:

```
#if (GLIB_MAJOR_VERSION == 2 && GLIB_MINOR_VERSION < 32) || (GLIB_MAJOR_VERSION == 1)
```

This solution should always work.

#6 - 01/09/2014 08:38 AM - Miroslav Fidler

Zbigniew Rebacz wrote:

Sorry for the mess.

I don't know why following expression: "#if !GTK_CHECK_VERSION(2, 32, 0)" is always true on my platform (latest Kubuntu version). I have glib version: 2.38.1.

That indeed is weird, I think you should try to resolve that first, just to be sure we understand the damned macro correctly... Have you tried something like

```
GUI_APP_MAIN
{
    DDUMP(GTK_CHECK_VERSION(2, 19, 0));
    DDUMP(!GTK_CHECK_VERSION(2, 19, 0));
    DDUMP(GTK_CHECK_VERSION(1, 19, 0));
    DDUMP(!GTK_CHECK_VERSION(1, 19, 0));
    DDUMP(GTK_CHECK_VERSION(2, 30, 0));
    DDUMP(!GTK_CHECK_VERSION(2, 30, 0));
}
```

?

#7 - 01/09/2014 09:23 PM - Zbigniew Rebacz

Here is output:

```
((2) > (2) || ((2) == (2) && (24) > (19)) || ((2) == (2) && (24) == (19) && (20) >= (0))) = true
!((2) > (2) || ((2) == (2) && (24) > (19)) || ((2) == (2) && (24) == (19) && (20) >= (0))) = false
```

```
((2) > (1) || ((2) == (1) && (24) > (19)) || ((2) == (1) && (24) == (19) && (20) >= (0))) = true
!((2) > (1) || ((2) == (1) && (24) > (19)) || ((2) == (1) && (24) == (19) && (20) >= (0))) = false
((2) > (2) || ((2) == (2) && (24) > (30)) || ((2) == (2) && (24) == (30) && (20) >= (0))) = false
!((2) > (2) || ((2) == (2) && (24) > (30)) || ((2) == (2) && (24) == (30) && (20) >= (0))) = true
```

#8 - 01/10/2014 02:41 PM - Miroslav Fidler

Hm, it looks like you have either 2.24, or have some glitch in include paths...

#9 - 01/10/2014 02:41 PM - Miroslav Fidler

- Status changed from Patch ready to In Progress
- Assignee changed from Miroslav Fidler to Zbigniew Rebacz

#10 - 01/10/2014 08:07 PM - Zbigniew Rebacz

- Assignee changed from Zbigniew Rebacz to Miroslav Fidler

Now, I understand the origin of this issue. Let's execute following test case:

```
GUI_APP_MAIN
{
    String gtkVersion = (IntStr(GTK_MAJOR_VERSION) + "." + IntStr(GTK_MINOR_VERSION) + "." + IntStr(GTK_MICRO_VERSION));
    String glibVersion = (IntStr(GLIB_MAJOR_VERSION) + "." + IntStr(GLIB_MINOR_VERSION) + "." + IntStr(GLIB_MICRO_VERSION));

    DDUMP(gtkVersion);
    DDUMP(glibVersion);
}
```

The output is:

```
gtkVersion = 2.24.20
glibVersion = 2.38.1
```

Personally, I don't know what we are going to do with this results. Should we replace GTK with GLIB?

#11 - 01/11/2014 11:53 AM - Miroslav Fidler

Ops :)

Well, GLIB_CHECK_VERSION really exists. Can you check with that?

Mirek

#12 - 01/11/2014 11:53 AM - Miroslav Fidler

- Assignee changed from Miroslav Fidler to Zbigniew Rebacz

#13 - 01/11/2014 12:59 PM - Zbigniew Rebacz

- Assignee changed from Zbigniew Rebacz to Miroslav Fidler

Your test case results with GLIB_CHECK_VERSION macro:

```
(2 > (2) || (2 == (2) && 38 > (19)) || (2 == (2) && 38 == (19) && 1 >= (0))) = true
!(2 > (2) || (2 == (2) && 38 > (19)) || (2 == (2) && 38 == (19) && 1 >= (0))) = false
(2 > (1) || (2 == (1) && 38 > (19)) || (2 == (1) && 38 == (19) && 1 >= (0))) = true
!(2 > (1) || (2 == (1) && 38 > (19)) || (2 == (1) && 38 == (19) && 1 >= (0))) = false
(2 > (2) || (2 == (2) && 38 > (30)) || (2 == (2) && 38 == (30) && 1 >= (0))) = true
!(2 > (2) || (2 == (2) && 38 > (30)) || (2 == (2) && 38 == (30) && 1 >= (0))) = false
```

No warning while using following code:

```
#if !GLIB_CHECK_VERSION(2, 32, 0)
    if(!g_thread_supported())
        g_thread_init(NULL);
#endif
```

P.S.

GLIB_CHECK_VERSION documentation: <https://developer.gnome.org/glib/2.30/glib-Version-Information.html>

Btw, shouldn't we replace GTK_CHECK_VERSION with GLIB_CHECK_VERSION in other cases like DnD too?

#14 - 01/11/2014 05:08 PM - Miroslav Fidler

- Status changed from In Progress to Approved

- Assignee changed from Miroslav Fidler to Zbigniew Rebacz

| Btw, shouldn't we replace GTK_CHECK_VERSION with GLIB_CHECK_VERSION in other cases like DnD too?

Definitely not, these are really gtk/gdk versions (which is the same).

Well, all seems OK now, closing the task. Thanks for cooperation.

Files

GtkApp.cpp	1.35 KB	12/30/2013	Zbigniew Rebacz
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