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Subject: MultiThreads and GLCtrl  
Posted by [281264](#) on Tue, 14 Sep 2010 13:39:42 GMT  
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Hi,

I am interested in an example about how to use GLCtrl and multithread in U++. Is there anything (example) already done? If not, some hints would be great.

Thank you.

Cheers,

Javier

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Subject: Re: MultiThreads and GLCtrl  
Posted by [mrjt](#) on Thu, 16 Sep 2010 08:36:31 GMT  
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I believe that OpenGL requires all calls to be made from the main thread, so synchronisation will be necessary.

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Subject: Re: MultiThreads and GLCtrl  
Posted by [ratah](#) on Fri, 17 Sep 2010 12:36:03 GMT  
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Hi,

Here is an example of multithread usage.  
It's a copy of code posted here (or in the tutorial of upp, i do not remember). I give it a minor modification.

I have a bug: when you push the STOP button, it crash!

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

```
using namespace Upp;
```

```
class TestThread : public TopWindow  
{  
protected:  
    bool stop;  
    void buttonCb(void);
```

```
Thread thr1, thr2;
virtual void thrCb(void);
virtual void thrPerso(void);
```

```
ProgressIndicator progress;
int32 icounter;
Button button;
StatusBar status;
```

```
public:
typedef TestThread CLASSNAME;
```

```
TestThread();
```

```
};
```

```
void TestThread::thrCb(void)
```

```
{
for(;;)
{
```

```
GuiLock __;
```

```
if(progress < 100)
```

```
progress++;
```

```
else
```

```
progress = 0;
```

```
if(stop)
```

```
break;
```

```
Sleep(100);
```

```
}
}
```

```
void TestThread::thrPerso(void)
```

```
{
for( ; ; )
```

```
{
{
```

```
GuiLock __;
```

```
icounter++;
```

```
status.Set(IntStr(icounter));
```

```
}
```

```
Sleep(100);
```

```
}
}
```

```
void TestThread::buttonCb(void)
```

```

{
if(stop)
{
stop = false;
button.SetLabel("STOP");

// I run here the first thread
thr1.Run(THISBACK(thrCb));

// I run here the second thread
thr2.Run(THISBACK(thrPerso));
}
else
{
stop = true;
thr1.Wait();
thr2.Wait();
button.SetLabel("START");
}

}

TestThread::TestThread()
{
SetRect(0, 0, 300, 150);
Add(button);
button.TopPos(90, 30).HCenterPos(100);
button.SetLabel("START");
Add(progress);
progress.TopPos(30, 40).HCenterPos(250);
progress.Set(0, 100);
icounter = 0;
AddFrame(status);
status.Set(" ");

stop = true;
button <<= THISBACK(buttonCb);

}

GUI_APP_MAIN
{
TestThread().Run();
}

```

Do not forget to change Configuration flags to Executable, GUI, Multithreaded!!

Hope you can fix the bug, good luck

RAtah

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Subject: Re: MultiThreads and GLCtrl  
Posted by [mrjt](#) on Fri, 17 Sep 2010 15:38:15 GMT  
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For one thing you aren't actually checking for stop in thrPerso.

The more fundamental problem is that calling Wait on a thread with GuiLock on it from the Gui thread won't work. The Gui thread is waiting for the thread to finish while the thread is waiting for the GUI thread to finish (or go idle). Therefor you get a lock.

I would suggest running a timer callback that checks for thread completion or something.

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Subject: Re: MultiThreads and GLCtrl  
Posted by [281264](#) on Sun, 26 Sep 2010 21:11:28 GMT  
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Hi Ratah

After some readings on the multithreading topic, I have modified the application you sent. I think now it works as you are expecting; test it and tell me.

Cheers,

Javier

### File Attachments

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1) [prueba\\_multi\\_threads.rar](#), downloaded 290 times

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