Subject: ProgressIndicator issue
Posted by idkfa46 on Tue, 24 Mar 2020 10:21:25 GMT
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Hallo guys,
I have a problem with my ProgressIndicator included in StatusBar.

My ProgressIndicator do not show the indicator increase till the end of the cicle (where displaying 100%)... it seems like the statusbar is not refreshed everytime, isn't it?

If I add a progress too, it works perfectly! Why?

How can I fix it removing the progress?

Here is a little example:

```
class test : public WithtestLayout<TopWindow> {
 StatusBar status;
 ProgressIndicator pi;

public:
 void load();
 typedef test CLASSNAME;
 test();
};

test::test()
{
 CtrlLayout(*this, "Window title");

 AddFrame(status);
 pi.Hide();
 pi.Percent();
 status.Add(pi.RightPos(5, 200).TopPos(2, 15));

 goBtn <<= THISBACK(load);
}

void test::load()
{
 Progress p;
 p.Create();

 pi.Show();
 pi.Set(0,1000000);
```

```
 for(int i = 0; i <=1000000; i++)
 {
  pi.Set(i);
  p.SetPos(i);
 }
 p.Close();
 pi.Close();
}

GUI_APP_MAIN
{
 test().Run();
}
```

Subject: Re: ProgressIndicator issue
Posted by Xemuth on Tue, 24 Mar 2020 11:39:40 GMT
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Hello Idkfa46,

Put this at begining of Load function :

```
GuiLock __;
```

Like that's :

```
void test::load()
{
	GuiLock __;
 Progress p;
 p.Create();

 pi.Show();
 pi.Set(0,1000000);

 for(int i = 0; i <=1000000; i++)
 {
  pi.Set(i);
  p.SetPos(i);
 }
 p.Close();
 pi.Close();
}
```

It Should allow the thread created by callback to interract with the GUI wich is stick to the main thread

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Subject: Re: ProgressIndicator issue
Posted by idkfa46 on Tue, 24 Mar 2020 12:02:56 GMT
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I tryed but nothing changed

thanks for your support,
Matteo

Subject: Re: ProgressIndicator issue
Posted by Xemuth on Tue, 24 Mar 2020 12:44:04 GMT
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I will share you a simple test case to see

Subject: Re: ProgressIndicator issue
Posted by Xemuth on Tue, 24 Mar 2020 13:21:39 GMT
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Here we go, this example show you how I deal with Progress Indicator, may there is another way of doing it (without thread maybe ?) But I don't know it.

May more experienced member wich know how to deal with it in a different way can share with us.

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

using namespace Upp;

class testIndicator : public TopWindow {
private:
 ProgressIndicator progress;
 Button button;
public:
 typedef testIndicator CLASSNAME;

 void myCallBack(){
  Thread().Run([&](){
   GuiLock __; //Since we are in thread we cant modify GUI, Except if we create a struct Name GuiLock wich will give ctrl of GUI to this thread
   button.Disable(); //Action on GUI
   GuiUnlock _; // Release the GUI Ctrl (if not done then the gui can freze because main thread
```

wich processe Mouse/key Ctrl and other GUI things is stuck since it don't have Ctrl of GUI anymore)

```
   for(int e = 0; e <  11; e++){
    if(Thread::IsShutdownThreads()){break;}
    GuiLock __3;
    progress = e;
    GuiUnlock _3; //It's important to release before Sleep Else the main thread wont be able to refresh GUI during the sleep (because this thread keep the control of GUI))
    Sleep(1000);
   }

   GuiLock __2; //Same as before
   button.Enable();
   GuiUnlock _2;

   return;
  });
 }

 testIndicator(){
  Title("Exemple ProgressBar");
  SetRect(0, 0, 220, 70);

  Add(button.LeftPos(30, 150).TopPos(10, 20));
  button.SetLabel("Increase progressBar");
  button <<= THISBACK(myCallBack);

  Add(progress.LeftPos(10, 200).TopPos(40, 20));
  progress.Set(0,10);
 }

 ~testIndicator(){
  Thread::ShutdownThreads(); //Thread released
 }
};

GUI_APP_MAIN
{
 testIndicator().Run();
}
```

Subject: Re: ProgressIndicator issue
Posted by Xemuth on Tue, 24 Mar 2020 13:28:52 GMT
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Also, In your exemple, the window freze because during the loop, the main thread wich is the

same as GUI thread is busy and wont refresh the GUI, that's why I have place my loop in another thread to let the GUI Thread free

---

Subject: Re: ProgressIndicator issue
Posted by idkfa46 on Tue, 24 Mar 2020 14:41:00 GMT
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Thank you for your support! Your solution is really interesting but the easiest solution is to call

ProcessEvents();

as suggested me by Omari.

Best,
Matteo

Subject: Re: ProgressIndicator issue
Posted by Xemuth on Tue, 24 Mar 2020 14:56:13 GMT
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idkfa46 wrote on Tue, 24 March 2020 15:41Thank you for your support! Your solution is really interesting but the easiest solution is to call

ProcessEvents();

as suggested me by Omari.

Best,
Matteo

Indeed, it work as well without a thread ! the only default of this methode is (if I put it in my exemple) the gui is still lock during the Sleep function which is normal.
Their is howerver many workarround like doing this kind of things : void myCallBack(){
```
  button.Disable(); //Action on GUI
  ProcessEvents();
  for(int e = 0; e <  11; e++){
   progress = e;
   ProcessEvents();
   for(int i = 0; i < 100; i++){
    Sleep(10);
    ProcessEvents();
   }
   //Same as Sleep(1000) but with a better control on GUI (however it wont 'sleep' for
   // 1 second now, but for 1 sec +  100 * (processEvents() Time)
  }
```

```
  button.Enable();
  ProcessEvents();
  return;
}
```