
Subject: How often is Update called? Is there a similiar frequently called method?

Posted by [rafiwui](#) on Fri, 17 Aug 2018 12:53:58 GMT

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I am not sure if this fits in here but because in my specific case it's about TopWindow it should be okay.

So the thing is, I need to run a method that is working in the background (or better every "frame" if that exists). It should start getting called after the window got shown.

So I searched a bit here in the forum and in the documentation and I tried calling it inside the virtual void State(int reason) method but that doesn't work (well I will get back to this a bit later) and I tried calling it inside the virtual void Updater() but that doesn't work as well because it does not get called frequently.

That is leading me to my question in the title:

How often is Update() called?

And because I think that it does not happen very often: Is there a virtual method or a CALLBACK that is called very frequently (1 or more times in a second)?

Getting back to the virtual void State(int reason) method I mentioned ealier:

It probably would work if I start a background thread here but because I want to avoid that I am asking the above question ;)

Subject: Re: How often is Update called? Is there a similiar frequently called method?

Posted by [dolik.rce](#) on Sat, 18 Aug 2018 11:53:23 GMT

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Hi Daniel,

If I remember correctly, the Update and similar methods are called "when necessary". Since U++ is event based GUI framework, pretty much everything just reacts to events (user input, timers etc.). There is not something you could define as "frame", as each Ctrl is updated independently and only when something changes.

I think what you actually want is SetTimeCallback. It allows you to launch either one time or periodic tasks on the same event loop as everything else. Just make sure that the work you actually do in each iteration does not take too long, otherwise it would block the GUI (but the same would hold in case of Update() or any other function that blocks the loop).

Best regards,
Honza

Subject: Re: How often is Update called? Is there a similiar frequently called method?

Posted by [mirek](#) on Mon, 20 Aug 2018 07:59:16 GMT

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Using timer might solve your issue, if what you need to do is to e.g. periodically check something.

Alternative is to "invert" message loop, or basically make your code the message loop: Instead of .Run (or .Execute) start your code and into some place that is passed through frequently enough (like each 1ms), put

```
if(Ctrl::IsWaitingEvent())  
    Ctrl::ProcessEvents();
```

This will read and process all GUI events.

Mirek
