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Thread: [\[Basic\] \[Tutorial\] ?Counter Using Multi-Threading ?](#)

Perplexity - April 25, 2011, 5:23 pm

?Counter Using Multi-Threading ?

I decided to write this tutorial since I've recently implemented Multi-Threading in my [VB.NET RPG Game](#)

First things first

You're going to need to import System.Threading, this isn't exactly needed but it makes life easier.

So declare this above everything:

Code Imports System.Threading

Let's get started

Firstly, you're going to need to declare a global integer, so underneath your Form1 Class, put this:

Code Dim Count As Integer = 0

Now then, we're going to need to create a sub for our thread, so make a new sub like this:

Code Sub AddCount()

Do While True

Count += 1

SetText(Count)

Loop

End Sub

Now what this will do, is keep counting up until the thread is stopped.

Now if you wanted it to only count up to a specific number, you would use something like:

Code Sub AddCount()

Do While Count < 10000

Count += 1

SetText(Count)

Loop

End Sub

Now, we're going to need to declare that SetText sub, so use this:

Code Private Sub SetText(ByVal Text As String)

If Me.Label1.InvokeRequired Then

Dim a As New ContextCallback(AddressOf SetText)

Me.Invoke(a, New Object() {Text})

Else

Me.Label1.Text = Text

End If

End Sub

Now we need to make it all work, so create a label in your form, leave it named as Label1, this will display the current count.

Also, add a button, leave that named as Button1.

Double click your button and use this code:

Code Dim countThread As New Thread(New ThreadStart(AddressOf Me.AddCount))

countThread.Start()

What this does, is it declares the thread and links it to the sub we created just now.
Now once you click your Button, it should keep counting up until wherever you specified it to stop.

Deceptive - April 25, 2011, 5:26 pm

Great tutorial and explanation, thank you for contributing.

Perplexity - April 25, 2011, 5:29 pm

(Apr 25, 2011 05:26 PM)TheMist Wrote: [\[CITE\]](#) Great tutorial and explanation, thank you for contributing.

Thank you, and you're quite welcome.

I created this because I thought it might help other members, because Multi-Threading sure as hell helped me xD

Marketplace - April 25, 2011, 6:10 pm

Nice job. I have a different method of doing it, but yours is nice too.

Cody8295 - April 25, 2011, 6:28 pm

Awesome tutorial, I like how you didn't use "CheckForIllegalCrossThreadCalls = False."

DragQueen - April 25, 2011, 6:42 pm

genious is called crossThread more Explain here

http://www.codeproject.com/KB/cs/Cross_Thread.aspx

MalwareMop - April 25, 2011, 7:15 pm

Might want to add abort, for form closing.

error32 - April 26, 2011, 8:18 pm

Please explain the last two snippets (settext sub & button click)

I want to learn but don't understand what's going on :L

Ghost? - April 26, 2011, 9:20 pm

This will be very helpful for a project I am working on.

Thanks

seifertson - August 17, 2011, 6:10 pm

Perplexity, i'm trying to make your example universal for my program...

```
Code Public Sub SetText(ByVal ctl As Control, ByVal Text As String)
```

```
    If ctl.InvokeRequired Then
```

```
        Dim a As New ContextCallback(AddressOf SetText)
```

```
        frmMain.Invoke(a, New Object() {Text})
```

```
    Else
```

```
        ctl.Text = Text
```

```
    End If
```

```
    End Sub
```

but i'm getting an error on ContextCallback(AddressOf SetText)

am i missing something here?

Perplexity - August 17, 2011, 8:17 pm

(Aug 17, 2011 06:10 PM)seifertson Wrote: [\[CITE\]](#) Perplexity, i'm trying to make your example universal for my program...

```
Code Public Sub SetText(ByVal ctl As Control, ByVal Text As String)
    If ctl.InvokeRequired Then
        Dim a As New ContextCallback(AddressOf SetText)
        frmMain.Invoke(a, New Object() {Text})
    Else
        ctl.Text = Text
    End If
End Sub
```

but i'm getting an error on ContextCallback(AddressOf SetText)

am i missing something here?

Please provide the error you're getting and maybe I can help you out.

seifertson - August 17, 2011, 9:26 pm

sure, the error i get is...

Code Method 'Public Sub SetText(ctl As System.Windows.Forms.Control, Text As String)' does not have a signature compatible with delegate 'Delegate Sub ContextCallback(state As Object)'.

Washi - August 17, 2011, 11:12 pm

Thanks for the code! I was looking for this for a long time. You helped me ?

Perplexity - August 17, 2011, 11:29 pm

(Aug 17, 2011 09:26 PM)seifertson Wrote: [\[CITE\]](#) sure, the error i get is...

Code Method 'Public Sub SetText(ctl As System.Windows.Forms.Control, Text As String)' does not have a signature compatible with delegate 'Delegate Sub ContextCallback(state As Object)'.

Re-read your code, you obviously did something wrong :3

(Aug 17, 2011 11:12 PM)TheUnknownProgrammer Wrote: [\[CITE\]](#) Thanks for the code! I was looking for this for a long time. You helped me ?

I'm glad this helped you, pm me if you have any questions :)

g1ll1s - August 17, 2011, 11:37 pm

Finally, I have been wondering about this idea for a while now, and actually needed to implement this into my new project, luckily I stumbled upon this. Thanks soo much, I am greatfull. Keep it up!