
Subject: THISFN and Thread

Posted by [sisamu](#) on Sun, 18 Mar 2018 08:38:47 GMT

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Hello,

I'm new in using CPP.

I made this function and i don't know how to call a function of the main in my thread. I have tried THISFN but it didn't work.

I have a compilation error with the last line "'this' was not captured for this lambda function".

If i remove the last line, the program works well.

My code :

```
void testDlg::Btnexecuter()
{
    //desactivation des boutons temps du tri
    controlActif(false);
    double qt( queryTime.GetData()), lt(lockTime.GetData()), rs(rowsSend.GetData()),
    re(rowsExaminated.GetData());
    String fichierSource(btnFichier.GetLabel());

    //Thread pour ne pas bloquer interface graphique
    t.Run([&stop, &fichierSource, &qt, &lt, &rs, &re]
    {
        MySqlSlowLogFilter f;
        String retourFiltre;
        String fichierDestination(GetFileDirectory(fichierSource) + GetFileTitle(fichierSource) +
        "-filtree.log");
        retourFiltre = f.filtrerLog(fichierSource.ToStd(), fichierDestination.ToStd(), qt,lt,rs,re);
        if (retourFiltre == "OK")
        {
            PromptOK(DeQt("Traitement terminé.\nFichier disponible dans " + fichierDestination));
        }
        else
        {
            PromptOK(DeQt(retourFiltre));
        }
        THISFN(testDlg::controlActif(true));
    });
}
```

Thank you for your help.

Subject: Re: THISFN and Thread

Posted by [mirek](#) on Tue, 20 Mar 2018 07:43:57 GMT

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I think this will fix it:

```
t.Run([=, &stop, &fichierSource, &qt, &lt, &rs, &re]
```

Subject: Re: THISFN and Thread

Posted by [mirek](#) on Tue, 20 Mar 2018 09:32:22 GMT

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That said, it will compile, but is likely to crash immediately:

```
t.Run([=, &stop, &fichierSource, &qt, &lt, &rs, &re]
```

fichierSource is a local variable and you are passing a reference to it to the thread. By the time thread runs, it will likely be out of scope (same is true for the rest of variables too).

Obvious fix is to pass all by value

```
t.Run([=] ...
```

Subject: Re: THISFN and Thread

Posted by [sisamu](#) on Tue, 20 Mar 2018 22:31:57 GMT

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Hello Mirek,

The new code is

```
void testDlg::Btnexecuter()
{
    //desactivation des boutons temps du tri
    controlActif(false);

    //variables
    double qt( queryTime.GetData()), lt(lockTime.GetData()), rs(rowsSend.GetData()),
    re(rowsExaminated.GetData());
    String fichierSource(btnFichier.GetLabel());

    //Thread pour ne pas bloquer interface graphique
    t.Run([=, &stop, &fichierSource, &qt, &lt, &rs, &re, &stop]
    {
        MySqlSlowLogFilter f;
```

```

String retourFiltre;
String fichierDestination(GetFileDirectory(fichierSource) + GetFileTitle(fichierSource) + "-filtree-"
+ queryTime.GetData().ToString() + "-" + lockTime.GetData().ToString() + "-" +
rowsSend.GetData().ToString() + "-" + rowsExaminated.GetData().ToString() + ".log");
retourFiltre = f.filtrerLog(fichierSource.ToStd(), fichierDestination.ToStd(), qt,lt,rs,re, stop);
if (retourFiltre == "OK")
{
    PromptOK(DeQtF("Traitement terminé.\nFichier disponible dans " + fichierDestination));
}
else
{
    PromptOK(DeQtF(retourFiltre));
}
bool p(true);
this->controlActif(true);
});
}

```

I added the equal before variables and replace THISFN by this-> and everything is going well (even variables by référence).
Great thank for your help.