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Subject: How to use Thread()

Posted by [forlano](#) on Fri, 12 Dec 2014 21:21:52 GMT

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Hello,

So far I have never used Threads... and to tell the truth I am rather confused about them. My GUI app freeze while some operation last 2 or 3 seconds (perform calculation and writing on a sqlite database). This is rather annoying because it seems the app is going to crash. So I thought to run a Thread for this operation and let the GUI to be free to use for other task. I hope this make sense.

The problem is that the compiler is complaining about Upp::callback, see below, that I do not understand (I used the GUI MT flag).

The function I would like to run in a thread ( SavePairing(num1, num2) ) is a member function of an external class called 'vegadb' and 'DB' is just an instance of vegadb. I tried without success:

```
Thread().Run( DB.SavePairing(num1, num2) );
```

```
Thread().Run( callback2( DB.SavePairing, num1, num2 ) );
```

```
Thread().Run( callback2( vegadb::SavePairing, num1, num2 ) );
```

I tried even callback3. Does anybody have a suggestion?

Thanks,

Luigi

PS: typical error message:

```
C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C3867: 'vegadb::SavePairing':  
function call missing argument list; use '&vegadb::SavePairing'  
to create a pointer to member
```

```
C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Gate4<P1,P2,P3,P4>  
Upp::callback2(const O *,bool (__thiscall M::* )(P  
1,P2,P3,P4,Q1,Q2) const,T1,T2)' : expects 4 arguments - 3 provided  
c:\upp\uppsrc\core\Callback2.h(572) : see declaration of 'Upp::callback2'
```

```
C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Gate4<P1,P2,P3,P4>  
Upp::callback2(O *,bool (__thiscall M::* )(P1,P2,P  
3,P4,Q1,Q2),T1,T2)' : expects 4 arguments - 3 provided  
c:\upp\uppsrc\core\Callback2.h(566) : see declaration of 'Upp::callback2'
```

```
C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Gate3<P1,P2,P3>  
Upp::callback2(const O *,bool (__thiscall M::* )(P1,P  
2,P3,Q1,Q2) const,T1,T2)' : expects 4 arguments - 3 provided  
c:\upp\uppsrc\core\Callback2.h(523) : see declaration of 'Upp::callback2'
```

```
C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Gate3<P1,P2,P3>  
Upp::callback2(O *,bool (__thiscall M::* )(P1,P2,P3,Q  
1,Q2),T1,T2)' : expects 4 arguments - 3 provided
```

c:\upp\uppsrc\core\Callback2.h(517) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Gate2<P1,P2> Upp::callback2(const O \*,bool (\_\_thiscall M::\* )(P1,P2,Q1,Q2) const,T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(469) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Gate2<P1,P2> Upp::callback2(O \*,bool (\_\_thiscall M::\* )(P1,P2,Q1,Q2),T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(463) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Gate1<P1> Upp::callback2(const O \*,bool (\_\_thiscall M::\* )(P1,Q1,Q2) const,T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(415) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Gate1<P1> Upp::callback2(O \*,bool (\_\_thiscall M::\* )(P1,Q1,Q2),T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(409) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Gate Upp::callback2(const O \*,bool (\_\_thiscall M::\* )(Q1,Q2) const,T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(361) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Gate Upp::callback2(O \*,bool (\_\_thiscall M::\* )(Q1,Q2),T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(355) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Callback4<P1,P2,P3,P4> Upp::callback2(const O \*,void (\_\_thiscall M::\* )(P1,P2,P3,P4,Q1,Q2) const,T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(269) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Callback4<P1,P2,P3,P4> Upp::callback2(O \*,void (\_\_thiscall M::\* )(P1,P2,P3,P4,Q1,Q2),T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(263) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Callback3<P1,P2,P3> Upp::callback2(const O \*,void (\_\_thiscall M::\* )(P1,P2,P3,Q1,Q2) const,T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(221) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Callback3<P1,P2,P3> Upp::callback2(O \*,void (\_\_thiscall M::\* )(P1,P2,P3,Q1,Q2),T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(215) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Callback2<P1,P2> Upp::callback2(const O \*,void (\_\_thiscall M::\* )(P1,P2,Q1,Q2) const,T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(168) : see declaration of 'Upp::callback2'

C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Callback2<P1,P2> Upp::callback2(O \*,void (\_\_thiscall M::\* )(P1,P2,Q1,Q2),T1,T2)' : expects 4 arguments - 3 provided

c:\upp\uppsrc\core\Callback2.h(162) : see declaration of 'Upp::callback2'  
C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Callback1<P1>  
Upp::callback2(const O \*,void (\_\_thiscall M::\* )(P1,Q1,  
Q2) const,T1,T2)' : expects 4 arguments - 3 provided  
c:\upp\uppsrc\core\Callback2.h(115) : see declaration of 'Upp::callback2'  
C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Callback1<P1>  
Upp::callback2(O \*,void (\_\_thiscall M::\* )(P1,Q1,Q2),T1  
,T2)' : expects 4 arguments - 3 provided  
c:\upp\uppsrc\core\Callback2.h(109) : see declaration of 'Upp::callback2'  
C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Callback  
Upp::callback2(const O \*,void (\_\_thiscall M::\* )(Q1,Q2) cons  
t,T1,T2)' : expects 4 arguments - 3 provided  
c:\upp\uppsrc\core\Callback2.h(62) : see declaration of 'Upp::callback2'  
C:\MyApps\VegaTeam6\SemiManualPairing.cpp(1218) : error C2780: 'Upp::Callback  
Upp::callback2(O \*,void (\_\_thiscall M::\* )(Q1,Q2),T1,T2)' :  
expects 4 arguments - 3 provided  
c:\upp\uppsrc\core\Callback2.h(56) : see declaration of 'Upp::callback2'

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