
Subject: Thread with parameterized callback?

Posted by [crydev](#) on Sat, 10 Nov 2012 22:16:10 GMT

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Hi, I am trying to start a new thread with a callback function that is requiring a parameter. I followed this example: [http://ultimatepp.org/reference\\$GuiMT\\$en-us.html](http://ultimatepp.org/reference$GuiMT$en-us.html) But I cannot get it compiled. My code is as following:

```
void ImdbManager::ImdbRunSearchOperation(String& pQuery)
{
    pQuery.Replace(" ", "+");
    String tmpHtmlstr = GetPage(String(IMDBSEARCHURL) + pQuery);
    if (IsResultPage(tmpHtmlstr))
    {
        Vector<ImdbLink> tmpLinks = ParseResultPage(tmpHtmlstr);
        WhenSearchGetCount(tmpLinks.GetCount());
        for (auto link : tmpLinks)
        {
            ImdbMovie m = ParseTitlePage(GetPage(IMDBTITLELINK + link));
            m.cUrl = link;
            WhenImdbMovie(m);
        }
    }
}
```

```
void ImdbManager::ImdbSearch(String pQuery)
{
    if (pQuery.IsEmpty())
    {
        return;
    }
    if (!PrepareImdbCache())
    {
        return;
    }
    Thread().Run(callback1(ImdbRunSearchOperation, pQuery));
}
```

Now by looking at the example, I should be able to compile this. I am still getting the following errors:

```
E:\upp\MovieManager\ImdbManager.cpp(138) : error C3867:
'ImdbManager::ImdbRunSearchOperation': function call missing argument list; use
'&ImdbManager::ImdbRunSearchOperation' to create
    a pointer to member
E:\upp\MovieManager\ImdbManager.cpp(138) : error C2780: 'Upp::Gate4<P1,P2,P3,P4>
Upp::callback1(const O *,bool (__thiscall M::* )(P1,P2,P3,P4,Q) const,T)' : expects 3 arguments -
2 pro
```

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```
e:\upp\uppsrc\core\Callback1.h(500) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Gate4<P1,P2,P3,P4>  
Upp::callback1(O *,bool (__thiscall M::* )(P1,P2,P3,P4,Q),T)' : expects 3 arguments - 2 provided  
e:\upp\uppsrc\core\Callback1.h(494) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Gate3<P1,P2,P3>  
Upp::callback1(const O *,bool (__thiscall M::* )(P1,P2,P3,Q) const,T)' : expects 3 arguments - 2  
provided  
e:\upp\uppsrc\core\Callback1.h(454) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Gate3<P1,P2,P3>  
Upp::callback1(O *,bool (__thiscall M::* )(P1,P2,P3,Q),T)' : expects 3 arguments - 2 provided  
e:\upp\uppsrc\core\Callback1.h(448) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Gate2<P1,P2>  
Upp::callback1(const O *,bool (__thiscall M::* )(P1,P2,Q) const,T)' : expects 3 arguments - 2  
provided  
e:\upp\uppsrc\core\Callback1.h(408) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Gate2<P1,P2>  
Upp::callback1(O *,bool (__thiscall M::* )(P1,P2,Q),T)' : expects 3 arguments - 2 provided  
e:\upp\uppsrc\core\Callback1.h(402) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Gate1<P1>  
Upp::callback1(const O *,bool (__thiscall M::* )(P1,Q) const,T)' : expects 3 arguments - 2 provided  
e:\upp\uppsrc\core\Callback1.h(362) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Gate1<P1> Upp::callback1(O  
*,bool (__thiscall M::* )(P1,Q),T)' : expects 3 arguments - 2 provided  
e:\upp\uppsrc\core\Callback1.h(356) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Gate Upp::callback1(const O  
*,bool (__thiscall M::* )(Q) const,T)' : expects 3 arguments - 2 provided  
e:\upp\uppsrc\core\Callback1.h(299) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Gate Upp::callback1(O *,bool  
(__thiscall M::* )(Q),T)' : expects 3 arguments - 2 provided  
e:\upp\uppsrc\core\Callback1.h(293) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Callback4<P1,P2,P3,P4>  
Upp::callback1(const O *,void (__thiscall M::* )(P1,P2,P3,P4,Q) const,T)' : expects 3 arguments -  
2  
provided  
e:\upp\uppsrc\core\Callback1.h(240) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Callback4<P1,P2,P3,P4>  
Upp::callback1(O *,void (__thiscall M::* )(P1,P2,P3,P4,Q),T)' : expects 3 arguments - 2 provided  
e:\upp\uppsrc\core\Callback1.h(234) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Callback3<P1,P2,P3>  
Upp::callback1(const O *,void (__thiscall M::* )(P1,P2,P3,Q) const,T)' : expects 3 arguments - 2  
provi  
ded  
e:\upp\uppsrc\core\Callback1.h(194) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Callback3<P1,P2,P3>  
Upp::callback1(O *,void (__thiscall M::* )(P1,P2,P3,Q),T)' : expects 3 arguments - 2 provided  
e:\upp\uppsrc\core\Callback1.h(188) : see declaration of 'Upp::callback1'  
E:\upp\MovieManager\lmdbManager.cpp(138) : error C2780: 'Upp::Callback2<P1,P2>
```

```
Upp::callback1(const O *,void (__thiscall M::* )(P1,P2,Q) const,T)' : expects 3 arguments - 2
provided
  e:\upp\uppsrc\core\Callback1.h(148) : see declaration of 'Upp::callback1'
E:\upp\MovieManager\ImdbManager.cpp(138) : error C2780: 'Upp::Callback2<P1,P2>
Upp::callback1(O *,void (__thiscall M::* )(P1,P2,Q),T)' : expects 3 arguments - 2 provided
  e:\upp\uppsrc\core\Callback1.h(142) : see declaration of 'Upp::callback1'
E:\upp\MovieManager\ImdbManager.cpp(138) : error C2780: 'Upp::Callback1<P1>
Upp::callback1(const O *,void (__thiscall M::* )(P1,Q) const,T)' : expects 3 arguments - 2 provided
  e:\upp\uppsrc\core\Callback1.h(102) : see declaration of 'Upp::callback1'
E:\upp\MovieManager\ImdbManager.cpp(138) : error C2780: 'Upp::Callback1<P1>
Upp::callback1(O *,void (__thiscall M::* )(P1,Q),T)' : expects 3 arguments - 2 provided
  e:\upp\uppsrc\core\Callback1.h(96) : see declaration of 'Upp::callback1'
E:\upp\MovieManager\ImdbManager.cpp(138) : error C2780: 'Upp::Callback Upp::callback1(const
O *,void (__thiscall M::* )(Q) const,T)' : expects 3 arguments - 2 provided
  e:\upp\uppsrc\core\Callback1.h(39) : see declaration of 'Upp::callback1'
E:\upp\MovieManager\ImdbManager.cpp(138) : error C2780: 'Upp::Callback Upp::callback1(O
*,void (__thiscall M::* )(Q),T)' : expects 3 arguments - 2 provided
  e:\upp\uppsrc\core\Callback1.h(33) : see declaration of 'Upp::callback1'
```

Can anyone tell me what is wrong here? I don't know how the threading of U++ works so I really don't know where to look for this. I also still don't understand how the callback to the GUI thread is done without exceptions as usually in C# for example you always have to invoke a callback in such case.
