## Media Player Classic - HC 源代码分析 5:关于对话框 (CAboutDlg)

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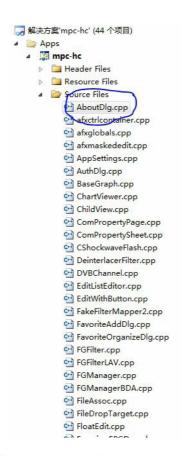
前几篇文章分析了Media Player Classic - HC(mpc-hc)的核心类(CMainFrame):

Media Player Classic - HC 源代码分析 2:核心类 (CMainFrame) (1)

Media Player Classic - HC 源代码分析 3:核心类 (CMainFrame) (2)

Media Player Classic - HC 源代码分析 4:核心类 (CMainFrame) (3)

核心类已经分析的差不多了,现在可以看一看其他类的定义了。可是如此多的类,看看什么好呢?本着由易到难的原则,应该先看看"关于"对话框的代码。"关于"对话框作为mpc-hc系统的一部分,比较有代表性,而且代码相对来说十分简单,因而适合刚入门的人进行学习。



如图所示,"关于"对话框类的定义和实现都在最前面(因为开头是'A'……==)。类的名字叫做CAboutDlg,定义位于AboutDlg.h,实现位于AboutDl g.cpp。

先看看"关于"对话框是什么样子的吧:



其实相比于其他的"关于"对话框来说,这个还算是一个相对比较复杂的。包含了编译器信息,版本等等信息。

CAboutDlg定义如下所示:

```
2.
       * (C) 2012 see Authors.txt
 3.
 4.
       * This file is part of MPC-HC.
 5.
 6.
       * MPC-HC is free software; you can redistribute it and/or modify
       * it under the terms of the GNU General Public License as published by
 7.
       * the Free Software Foundation; either version 3 of the License, or
 8.
        * (at your option) any later version.
 9.
10.
        * MPC-HC is distributed in the hope that it will be useful,
11.
       * but WITHOUT ANY WARRANTY; without even the implied warranty of
12.
13.
        * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
      * GNU General Public License for more details.
14.
15.
      \ ^{*} You should have received a copy of the GNU General Public License
16.
17.
       * along with this program. If not, see <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/>.
18.
19.
20.
21.
       #pragma once
22.
23.
       #include <afxwin.h>
      #include "resource.h"
24.
25.
      class CAboutDlg : public CDialog
26.
27.
        CStatic m_icon;
28.
29.
30.
          CString m_appname;
31.
           CString m_strBuildNumber;
32.
          CString m_MPCCompiler;
33.
      #ifndef MPCHC_LITE
34.
          CString m_FFmpegCompiler;
35.
36.
       CString m credits;
37.
          CString m_AuthorsPath;
38.
39.
      public:
        CAboutDla():
40.
41.
42.
      virtual BOOL OnInitDialog();
43.
44.
      afx_msg void OnHomepage(NMHDR* pNMHDR, LRESULT* pResult);
45.
           afx_msg void OnAuthors(NMHDR* pNMHDR, LRESULT* pResult);
46.
47.
           // Dialog Data
      //{{AFX_DATA(CAboutDlg)
48.
49.
           enum { IDD = IDD_ABOUTBOX };
      //}}AFX DATA
50.
51.
52.
      // ClassWizard generated virtual function overrides
          //{{AFX VIRTUAL(CAboutDlg)
53.
54.
      protected:
          virtual void DoDataExchange(CDataExchange* pDX):
                                                               // DDX/DDV support
55.
56.
       //}}AFX_VIRTUAL
57.
58.
       // Implementation
59.
      protected:
60.
          //{{AFX_MSG(CAboutDlg)
61.
           // No message handlers
62.
          //}}AFX_MSG
           DECLARE_MESSAGE_MAP()
63.
64.
```

[cpp] 📳 📑

从代码上来看。该对话框类和普通的MFC对话框类没有什么区别。不过这个"高端"的"关于"对话框确实包含了不少信息:mpc-hc版本,ffmpeg版本,编译器版本等等。 这里就不再多说了,看看它类的实现部分的代码:

```
1.
2.
      * (C) 2012-2013 see Authors.txt
3.
4.
      * This file is part of MPC-HC.
5.
      * MPC-HC is free software; you can redistribute it and/or modify
6.
       * it under the terms of the GNU General Public License as published by
7.
      * the Free Software Foundation; either version 3 of the License, or
8.
       st (at your option) any later version.
9.
10.
11.
       * MPC-HC is distributed in the hope that it will be useful,
      * but WITHOUT ANY WARRANTY; without even the implied warranty of
12.
       * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
13.
14.
      * GNU General Public License for more details.
15.
16.
      * You should have received a copy of the GNU General Public License
17.
       * along with this program. If not, see <a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>.
18.
```

```
19.
20.
       #include "stdafx.h"
 21.
       #include "AboutDlg.h"
 22.
 23.
       #include "mpc-hc config.h"
       #ifndef MPCHC LITE
24.
 25.
       #include "FGFilterLAV.h"
 26.
       #endif
 27.
       #include "mplayerc.h"
 28.
       #include "version.h"
 29.
       #include "SysVersion.h"
       #include "WinAPIUtils.h"
 30.
 31.
 32.
       33.
       // CAboutDlg dialog used for App About
 34.
 35.
       CAboutDlg::CAboutDlg() : CDialog(CAboutDlg::IDD)
 36.
         , m_appname(_T(""))
           , m_strBuildNumber(_T(""))
37.
 38.
           , m_MPCCompiler(_T(""))
 39.
       #ifndef MPCHC LITE
 40.
         , m_LAVFiltersVersion(_T("")
41.
       #endif
 42.
 43.
           //{{AFX DATA INIT(CAboutDlg)
 44.
          //}}AFX_DATA_INIT
 45.
       //初始化
 46.
 47.
       BOOL CAboutDlg::OnInitDialog()
 48.
       {
 49.
           // Get the default text before it is overwritten by the call to __super::OnInitDialog()
           GetDlgItem(IDC_STATIC1)->GetWindowText(m_appname);
50.
           {\tt GetDlgItem(IDC\_AUTHORS\_LINK)} \operatorname{->GetWindowText}({\tt m\_credits});
 51.
       #ifndef MPCHC LITE
52.
 53.
          GetDlgItem(IDC_LAVFILTERS_VERSION)->GetWindowText(m_LAVFiltersVersion);
54.
       #endif
 55.
 56.
       __super::OnInitDialog();
 57.
 58.
       // Because we set LR_SHARED, there is no need to explicitly destroy the icon
           m_icon.SetIcon((HICON)LoadImage(AfxGetInstanceHandle(), MAKEINTRESOURCE(IDR_MAINFRAME), IMAGE_ICON, 48, 48, LR_SHARED));
 59.
 60.
61.
       #if MPC BETA RELEASE || WIN64
         m_appname += _T(" (");
62.
       #endif
63.
64.
       #if MPC BETA RELEASE
 65.
         m_appname += MPC_VERSION_BETA;
 66.
 67.
       #endif
 68.
 69.
       #if MPC_BETA_RELEASE && _WIN64
 70.
         m_appname += _T(", ");
 71.
 72.
 73.
       #ifdef WIN64
 74.
          m_appname += T("64-bit");
 75.
 76.
       #if MPC_BETA_RELEASE || _WIN64
 77.
 78.
         m_appname += _T(")");
 79.
       #endif
80.
       #ifdef MPCHC LITE
81.
82.
         m_appname += _T(" Lite");
83.
       #endif
84.
 85.
           // Build the path to Authors.txt
 86.
       m_AuthorsPath = GetProgramPath() + _T("Authors.txt");
 87.
           // Check if the file exists
88.
       if (FileExists(m_AuthorsPath)) {
 89.
               // If it does, we make the filename clickable
 90.
               m_credits.Replace(_T("Authors.txt"), _T("<a>Authors.txt</a>
 91.
92.
           \label{eq:mhomepage} $$m_{\text{homepage.Format}(T("<a>%s</a>"), $$WEBSITE_URL);}
93.
94.
95.
           m strBuildNumber = MPC VERSION STR FULL:
96.
97.
       #if defined(__INTEL_COMPILER)
98.
       #if (__INTEL_COMPILER >= 1210)
99.
           m_MPCCompiler = _T("ICL ") MAKE_STR(__INTEL_COMPILER) _T(" Build ") MAKE_STR(__INTEL_COMPILER_BUILD_DATE);
100.
       #else
101.
       #error Compiler is not supported!
102.
       #endif
103.
       #elif defined(_MSC_VER)
104.
       #if ( MSC VER == 1700) // 2012
       #if (_MSC_FULL_VER == 170060610)
105.
          m_MPCCompiler = _T("MSVC 2012 Update 3");
106.
       #elif ( MSC FULL VER == 170060315) // MSVC 2012 Update 2
107.
       #error VS2012 Update 2 is not supported because the binaries will not run on XP. Install Update 3 instead.
108.
       \#elif (\_MSC\_FULL\_VER == 170051106)
109.
```

```
m_MPCCompiler = _T("MSVC 2012 Update 1");
110.
111.
       #elif (_MSC_FULL_VER < 170050727) // MSVC 2012
112.
       #error Please install the latest Update for VS2012.
113.
       #else
114.
         m MPCCompiler = T("MSVC 2012"):
115.
        #endif
116.
       #elif (_MSC_VER == 1600) // 2010
       #if ( MSC FULL VER >= 160040219)
117.
         m_MPCCompiler = _T("MSVC 2010 SP1");
118.
119.
       #else
        m MPCCompiler = T("MSVC 2010");
120.
121.
       #endif
122.
       #elif ( MSC VER < 1600)
123.
       #error Compiler is not supported!
124.
       #endif
125.
126.
       #error Please add support for your compiler
127.
       #endif
128.
129.
       #if ( AVX )
130.
          m_MPCCompiler += _T(" (AVX)");
131.
       #elif ( SSSE3
          m MPCCompiler += _T(" (SSSE3)");
132.
       #elif ( SSE3 )
133.
         m MPCCompiler += T(" (SSE3)");
134.
       \texttt{#elif !defined(\_M\_X64) \&\& defined(\_M\_IX86\_FP)}
135.
       #if (_M_IX86_FP == 2) // /arch:SSE2 was used
136.
           m_MPCCompiler += _T(" (SSE2)");
137.
       \#elif (_M_IX86_FP == 1) // /arch:SSE was used
138.
139.
          m_MPCCompiler += _T(" (SSE)");
140.
       #endif
141.
       #endif
142.
143.
       #ifdef _DEBUG
144.
         m_MPCCompiler += _T(" Debug");
145.
       #endif
146.
147.
       #ifndef MPCHC LITE
        //版本
148.
           CString LAVFiltersVersion = CFGFilterLAV::GetVersion():
149.
150.
        if (!LAVFiltersVersion.IsEmpty()) {
151.
               m LAVFiltersVersion = LAVFiltersVersion:
152.
153.
       #endif
154.
155.
           m_buildDate = _T(__DATE__) _T(" ") _T(__TIME__);
156.
157.
           OSVERSIONINFOEX osVersion = SysVersion::GetFullVersion();
       m_OSName.Format(_T("Windows NT %1u.%1u (build %u"),
158.
159.
                           osVersion.dwMajorVersion, osVersion.dwMinorVersion, osVersion.dwBuildNumber);
       if (osVersion.szCSDVersion[0]) {
160.
161.
               m OSName.AppendFormat( T(", %s)"), osVersion.szCSDVersion):
       } else {
162.
163.
               m_OSName += _T(")");
164.
165.
           \verb|m_OSVersion.Format(_T("\$lu.\$lu"), osVersion.dwMajorVersion, osVersion.dwMinorVersion);|
166.
        if (SysVersion::Is64Bit()) {
167.
               m_OSVersion += _T(" (64-bit)");
168.
169.
170.
       UpdateData(FALSE);
171.
172.
       GetDlgItem(IDOK)->SetFocus();
173.
174.
        return FALSE:
175.
       }
176.
177.
       void CAboutDlg::DoDataExchange(CDataExchange* pDX)
178.
       {
179.
           CDialog::DoDataExchange(pDX):
180.
           //{{AFX DATA MAP(CAboutDlg)
181.
           //}}AFX DATA MAP
182.
           DDX_Control(pDX, IDR_MAINFRAME, m_icon);
183.
           DDX_Text(pDX, IDC_STATIC1, m_appname);
184.
           DDX_Text(pDX, IDC_AUTHORS_LINK, m_credits);
185.
           DDX_Text(pDX, IDC_HOMEPAGE_LINK, m_homepage);
186.
           DDX_Text(pDX, IDC_VERSION, m_strBuildNumber);
187.
           DDX_Text(pDX, IDC_MPC_COMPILER, m_MPCCompiler);
       #ifndef MPCHC_LITE
188.
189.
           DDX Text(pDX, IDC LAVFILTERS VERSION, m LAVFiltersVersion);
190.
       #endif
191.
           DDX Text(pDX, IDC STATIC2, m buildDate);
           DDX Text(pDX, IDC_STATIC3, m_OSName);
192.
193.
           DDX Text(pDX, IDC STATIC4, m OSVersion);
194.
       }
195.
196.
       BEGIN_MESSAGE_MAP(CAboutDlg, CDialog)
197.
           //{{AFX_MSG_MAP(CAboutDlg)
198.
           // No message handlers
199.
           //}}AFX MSG MAP
200.
           ON_NOTIFY(NM_CLICK, IDC_HOMEPAGE_LINK, OnHomepage)
           ON NOTTEV/NM CLTCV
                               TOC AUTHODE I TAIL
```

```
UN NUITFI(NE CLICK, IDC AUIHUND LINK, UHAUCHUIS)
202.
           ON BN CLICKED(IDC BUTTON1, OnCopyToClipboard)
       END MESSAGE MAP()
203.
204.
       void CAboutDlg::OnHomepage(NMHDR* pNMHDR, LRESULT* pResult)
205.
206.
207.
           ShellExecute(\verb|m_hW| nd, \verb|_T("open"), \verb|WEBSITE_URL, nullptr, nullptr, SW_SHOWDEFAULT);\\
208.
           *pResult = 0;
209.
210.
211.
       void CAboutDlg::OnAuthors(NMHDR* pNMHDR, LRESULT* pResult)
212.
       {
213.
           ShellExecute(m_hWnd, _T("open"), m_AuthorsPath, nullptr, nullptr, SW_SHOWDEFAULT);
214.
           *pResult = 0;
215.
       //拷贝到剪切板
216.
217.
       void CAboutDlg::OnCopyToClipboard()
218.
219.
           //把各种信息添加到一个字符串中
220.
       CStringW info = m_appname;
221.
       info += _T("\n----
222.
223.
                         MPC-HC compiler: ") + m_MPCCompiler + _T("\n");
       info += _T("
224.
225.
           info += _T("
                          Build date:
                                                ") + m_buildDate + _T("\n\n");
       #ifndef MPCHC_LITE
226.
227.
           info += _T("LAV Filters:\n");
       info += _T(" LAV Splitter: ") + CFGFilterLAV::GetVersion(CFGFilterLAV::SPLITTER) + _T("\n");
228.
       info += _T(" LAV Video: ") + CFGFilterLAV::GetVersion(CFGFilterLAV::VIDEO_DECODER) + _T("\n");
info += _T(" LAV Audio: ") + CFGFilterLAV::GetVersion(CFGFilterLAV::AUDIO_DECODER) + _T("\n\n");
229.
230.
231.
       #endif
        info += _T("Operating system:\n");
232.
           info += _T(" Name: ") + m_OSName + _T("\n");
info += _T(" Version: ") + m_OSVersion + _T("\n");
233.
234.
235.
236.
           COleDataSource* pData = DEBUG NEW COleDataSource();
237.
238.
       int len = info.GetLength() + 1;
239.
           HGLOBAL hGlob = GlobalAlloc(GMEM_FIXED, len * sizeof(WCHAR));
240.
           if (pData && hGlob) {
241.
242.
              wcscpy_s((WCHAR*)hGlob, len, (LPCWSTR)info);
243.
244.
           pData->CacheGlobalData(CF_UNICODETEXT, hGlob);
245.
              // The system will take care of removing the allocated memory
246.
               pData->SetClipboard();
247.
248.
       } else if (pData) {
249.
               delete pData;
           } else if (hGlob) {
250.
251.
               GlobalFree(hGlob);
252.
253.
```

代码整体上通俗易懂,调用的都是很常见的函数,不多解释了。

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