
Subject: Path including non-English character, buglog and usrlog file cannot be deleted

Posted by [kasome](#) on Thu, 21 Aug 2008 07:16:19 GMT

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In the debug mode, when the path of execute file including non-English character, like Chinese, buglog and usrlog cannot be deleted after the execute file terminated.

the content of buglog and usrlog file is as the following:

36.MainMenu with layout.2008-08-21-14-21-45.buglog:

21.08.2008 14:21:45, user: kasome

36.MainMenu with layout.2008-08-21-14-21-45.usrlog:

21.08.2008 14:21:45, user: kasome

and i find out the reason may be the file

uppsrc\Core\Path.cpp

in the following function:

```
bool FileDelete(const char *filename)
{
#ifdef PLATFORM_WIN32
    if( IsWinNT() ){
        return !!UnicodeWin32().DeleteFileW( ToSystemCharsetW(filename) );
    }
    else
        return !!DeleteFile(ToSystemCharset(filename));
#elif defined(PLATFORM_POSIX)
    return !unlink(ToSystemCharset(filename));
#else
#error
#endif//PLATFORM
}
```

i keep trying and finally fix the function as the following, this function WideString can be found in the attachment file got from the internet.

```
bool FileDelete(const char *filename)
{
#ifdef PLATFORM_WIN32
    if( IsWinNT() ){
        return !!UnicodeWin32().DeleteFileW( ToSystemCharsetW( ToUtf8( WideString( filename ) ) ) );
    }
    else
        return !!DeleteFile(ToSystemCharset(filename));
#elif defined(PLATFORM_POSIX)
    return !unlink(ToSystemCharset(filename));
#else
    #error
#endif//PLATFORM
}
```

WideString.h

```
#include <windows.h>
#include <CtrlLib/CtrlLib.h>
#include <iostream>

using namespace std;
using namespace Upp;
```

WString WideString(const String s);

WideString.cpp

```
#include "WideString.h"

WString WideString( const String s ){

    int nIndex = MultiByteToWideChar( CP_ACP, 0, s, -1, NULL, 0 );
    wchar_t *w = new wchar_t[ nIndex + 1 ];
    MultiByteToWideChar( CP_ACP, 0, s, -1, w, nIndex );
    WString wstr = w;
    delete[] w; w = 0;

    return wstr;
}
```

now everthing is work fine, but i can not explain why, may be there is a more better way to solve this.

OS: Microsoft Windows XP Professional SP2
Language: Taiwan (codepage 950)

File Attachments

1) [WideString.rar](#), downloaded 332 times

Subject: Re: Path including non-English character, buglog and usrlog file cannot be deleted

Posted by [mirek](#) on Thu, 21 Aug 2008 14:48:56 GMT

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kasome wrote on Thu, 21 August 2008 03:16In the debug mode, when the path of execute file including non-English character, like Chinese, buglog and usrlog cannot be deleted after the execute file terminated.

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now everthing is work fine, but i can not explain why, may be there is a more better way to solve this.

OS: Microsoft Windows XP Professional SP2
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Thanks. Handling CJK is always full of surprises

Hm, if this works well, I believe that the construct should be embedded into ToSystemCharsetW, correct?

Can you try to put it there and create / delete a couple of files with CJK filenames?

Mirek

Subject: Re: Path including non-English character, buglog and usrlog file cannot be deleted

Posted by [kasome](#) on Thu, 28 Aug 2008 12:50:56 GMT

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I am so sorry replying late. Here is my some result.

When i put "ToUtf8(WideString(filename))" to the function "ToSystemCharsetW". i found something wrong when i try to delete and create file with Chinese filenames, so i try to trace the code. Finally, i find out the better solution.

just find the code in

c:\upp\uppsrc\Core\Log.cpp

```

bool LogStream::Delete()
{
    Close();
}

```

```

if(*filename) {
    if( !FileDelete( filename ) ) {
        BugLog() << "Error deleting " << filename << ": " << GetLastErrorMessage();
        return false;
    }
    *filename = 0;
}
return true;
}

```

and fix as the following

```

bool LogStream::Delete()
{
    Close();
    if(*filename) {
        if( !FileDelete( FromSystemCharset(filename) ) ) {
            BugLog() << "Error deleting " << filename << ": " << GetLastErrorMessage();
            return false;
        }
        *filename = 0;
    }
    return true;
}

```

The function "FromSystemCharset" embed in U++ and the function "WideString" is equivalent.

Because "FileDelete" should take UTF8 string as argument, and filename seem to just the ansi string, covert ansi string to utf8 by the function "FromSystemCharset" should solve the problem (e.g. the problem when path including non-English character, buglog and usrlog file cannot be deleted).

Now everything is work fine. (i hope so)

BTW, here is some test code i wrote to test the two function (in c:\upp\uppsrc\Core\Path.cpp) "FileDelete" and "DirectoryDelete" in processing file with the path including chinese characters, and it works very well in my OS. These two function has no problem when i test.

U++ is an amazing Tool. Thank you.

File Attachments

1) [PastedImage.jpg](#), downloaded 620 times

2) [TestPath.rar](#), downloaded 280 times

Subject: Re: Path including non-English character, buglog and usrlog file cannot be deleted

Posted by [mirek](#) on Thu, 28 Aug 2008 13:27:48 GMT

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I do not know, I still do not like it

The file is created using:

```
hfile = CreateFile(ToSysChrSet(filename),
```

therefore I would expect the correct solution to be

```
if(!FileDelete(ToSysChrSet(filename))) {
```

Would that work for you?

Mirek

Subject: Re: Path including non-English character, buglog and usrlog file cannot be deleted

Posted by [mirek](#) on Thu, 28 Aug 2008 13:29:04 GMT

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Note: ToSysChrSet is used instead of ToSystemCharset because LogStream is carefully designed to work even if everything else is corrupted, e.g. without the heap (which is needed for String).

Mirek

Subject: Re: Path including non-English character, buglog and usrlog file cannot be deleted

Posted by [kasome](#) on Thu, 28 Aug 2008 14:33:27 GMT

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```
if(!FileDelete(ToSysChrSet(filename))) {
```

//I see. I have try it, and yes, it can work totally. Thanks you very much.

Sorry. I think i make some mistake by building with release mode, so i say it works totally, but it not true.

In fact, when i using

```
if(!FileDelete(ToSysChrSet(filename))) {
```

the log file(*.usrlog, *.buglog) still can't deleted.

i am sorry for this mistake.
