

Re: Get ASCII value for character when higher than 127

Source: <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.language/2007-05/msg00597.html>

- *From:* "Ben Voigt" <rbv@xxxxxxxxxxxxxx>
 - *Date:* Thu, 24 May 2007 10:14:59 -0500
-

Instead of `wcstombs`, use `WideCharToMultiByte` and `CP_UTF8`

<http://msdn2.microsoft.com/en-us/library/ms776420.aspx>

Also write the UTF byte order mark to the beginning of the file, so it will be decoded correctly by other programs (eg Notepad)

<ssetz@xxxxxxx> wrote in message
news:1180011654.065962.94870@xx
Hello,

For work, I need to write a password filter. The problem is that my C++ experience is only some practice in school, 10 years ago. I now develop in C# which is completely different to me.

But, the password filter needs to be built, so I'm doing my best. First of all, I am creating an xml string that contains both username and password, and then I want to write the ascii values for all characters to a textfile. By using the ascii values I am sure I can store special characters, also in a textfile.

I got it working, but only when the password only contains characters that have an ASCII value lower than 127. But, in windows it is possible to change a password also to something that contains special characters, like é, ë, or ?.so I also need to be able to get these characters in my filter.

Below is the code that works for characters with ASCII values lower than 127. Can anyone tell me what I need to do to get this working for all characters?

I've been searching and puzzling for two days now and haven't gotten any closer to how to solve this.

Any help will be appreciated.

Thanks in advance,

Re: Get ASCII value for character when higher than 127

Sandra

```
=====

#include <windows.h>
#include <ntsecapi.h>
#include <time.h>
#include <fstream>
#include <iostream>
#include "PwdHookNew.h"
#include <sstream>
#include <string>

using namespace std;

#ifndef STATUS_SUCCESS
#define STATUS_SUCCESS ((NTSTATUS)0x00000000L)
#endif

string GetASCIIString(string oristring)
{
    unsigned char ch;

    int i, j, k;
    string numstrings;

    ostringstream oss;

    for(i=0;i<oristring.size();i++)
    {
        ch=oristring[i];
        k = int(ch);

        if (k<10)
        {
            oss << "000" << k << "-";
        }
        else if (k<100)
        {
            oss << "00" << k << "-";
        }
        else if(k<1000)
        {
            oss << "0" << k << "-";
        }
        else
        {
            oss << k << "-";
        }
    }
}
```

Re: Get ASCII value for character when higher than 127

```
numstrings=oss.str();
oss.clear();

return numstrings;
}

NTSTATUS
NTAPI
PasswordChangeNotify(
PUNICODE_STRING UserName,
ULONG RelativeId,
PUNICODE_STRING Password
)
{
const char* timeStringFormat = "%Y-%m-%d_%H-%M-%S";
const int timeStringLength = 20;
char timeString[timeStringLength];

// get current date and time
time_t t = time(0);
tm *curTime = localtime(&t);

strftime(timeString, timeStringLength, timeStringFormat,
curTime);

char path[80];
strcpy (path, "C:\\pwds\\");
strcat (path, timeString);
strcat (path, ".txt");

char *usernameStr, *passwordStr;

usernameStr = (char*)calloc(1, (UserName->Length/2)+1);
passwordStr = (char*)calloc(1, (Password->Length/2)+1);

wcstombs(usernameStr, UserName->Buffer, (UserName->Length/2));
wcstombs(passwordStr, Password->Buffer, (Password->Length/2));

char xmlmsg[150];
strcpy (xmlmsg, "<userpwd><username>");
strcat (xmlmsg, usernameStr);
strcat (xmlmsg, "</username><password>");
strcat (xmlmsg, passwordStr);
strcat (xmlmsg, "</password></userpwd>");

string xmlASCII = GetASCIIString(xmlmsg);

ofstream outPwd(path, ios::app);

if (!outPwd)
```

Re: Get ASCII value for character when higher than 127

```
{  
ofstream outPwd(path, ios::out );  
}  
  
outPwd << xmlASCII ;  
outPwd.close();  
  
return STATUS_SUCCESS;  
}
```

.