
Subject: Environment variables code page

Posted by [Zbych](#) on Sat, 25 Jul 2009 11:05:22 GMT

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Hi,

GetEnv function uses FromSystemCharset to convert code page, but environment variables in windows use OEM not ANSI code page. I think that there should be another function - FromOEMCharset (defined only in section PLATFORM_WIN32) and GetEnv should be split in two versions (windows and posix).

App.cpp, line ~10:

```
#ifdef PLATFORM_WIN32
String GetEnv(const char *id)
{
    return FromOEMCharset(getenv(id));
}
```

[...]

App.cpp line ~20:

```
#ifdef PLATFORM_POSIX

String GetEnv(const char *id)
{
    return FromSystemCharset(getenv(id));
}
```

[...]

Util.cpp line ~620:

```
String FromOEMCharset(const String& src)
{
    WStringBuffer b(src.GetLength());
    int q = MultiByteToWideChar(CP_OEMCP, MB_PRECOMPOSED, ~src, src.GetLength(),
(WCHAR*)~b, src.GetLength());
    if(q <= 0)
        return src;
    b.SetCount(q);
    return WString(b).ToString();
}
```

Subject: Re: Environment variables code page
Posted by [mirek](#) on Sun, 26 Jul 2009 01:26:40 GMT
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Zbych wrote on Sat, 25 July 2009 07:05Hi,

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    (WCHAR*)~b, src.GetLength());
    if(q <= 0)
        return src;
    b.SetCount(q);
    return WString(b).ToString();
}
```

OK, I have only tried to size-optimize a little (please check):

```
String FromWin32Charset(const String& src, int cp)
{
    WStringBuffer b(src.GetLength());
    int q = MultiByteToWideChar(cp, MB_PRECOMPOSED, ~src, src.GetLength(), (WCHAR*)~b,
src.GetLength());
    if(q <= 0)
        return src;
    b.SetCount(q);
    return WString(b).ToString();
}
```

```
String FromOEMCharset(const String& src)
{
    return FromWin32Charset(src, CP_OEMCP);
}
```

```
String FromSystemCharset(const String& src)
{
    return FromWin32Charset(src, CP_ACP);
}
```

Mirek

Subject: Re: Environment variables code page
Posted by [Zbych](#) on Sun, 26 Jul 2009 09:18:17 GMT
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luzr wrote on Sun, 26 July 2009 03:26OK, I have only tried to size-optimize a little (please check)

Works like a charm . Thanks.

Subject: Re: Environment variables code page
Posted by [cbpporter](#) on Sun, 26 Jul 2009 09:21:10 GMT
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Zbych wrote on Sat, 25 July 2009 14:05
GetEnv function uses FromSystemCharset to convert code page, but environment variables in windows use OEM not ANSI code page.

This must be the reason why Unicode strings where not recognized in environment variables. I proposed a solution here, but I guess this will work a lot better. I'll try to see if it works correctly.
