
Subject: Re: Strings with national specific characters are wrongly sorted - Sort
Posted by [mirek](#) on Fri, 27 Aug 2021 07:51:58 GMT

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Klugier wrote on Wed, 25 August 2021 13:01Hello,

Today I found that sort returns wrong results in term of special characters:

```
#include <Core/Core.h>

using namespace Upp;

CONSOLE_APP_MAIN
{
    Sort(vec);

    for (const auto s : vec)
    {
        Cout() << s << "\n";
    }
}
```

The results are:

```
Ala
Edward
Zbig
```

and should be:

```
Ala
Edward
Zbig
```

This is probably corner case, because this world doesn't exist in Polish, but anyway the error is there. I believe it is more serve when these character are in the middle of the string and we have a lot of such words.

Here is the article about Polish alphabet and the order of letters.

Klugier

This is not error, base [W]String comparison simply compares character values.

You need to use NLS specific sorting in this situation - LanguageInfo::Compare. That said, it really is specifically defined just for CZ and even there it would need improvement, OTOH the generic routine should at least work better than the result you get.

BTW, language specific sorting is extremely difficult topic if it should be done right in many languages...

Mirek
