Subject: localized formating of double on linux
Posted by lokki on Tue, 30 Dec 2008 10:33:27 GMT
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Hello,

I'm porting application developed in UPP on Windows to Linux (using Gentoo 2008.1).

When formating double values (displayed in GridCtrl, in EditDouble), strage output appears. Following converter worked on windows but gives strange results on linux

```
class ConvertMoney : public ConvertDouble
{
public: ConvertMoney() : ConvertDouble() {Pattern("%2!nl");}
};
```

e.g. whe we have in database value 1.234, on windows is displayed string "1,23", on linux "1,00". It always changes last two charactes with zeros. Experimenting with converter's pattern gives no acceptable results.

My linux locale is:

```
LANG=sk_SK.utf8
LC_CTYPE=sk_SK.utf8
LC_NUMERIC="sk_SK.utf8"
LC_TIME="sk_SK.utf8"
LC_COLLATE=C
LC_MONETARY="sk_SK.utf8"
LC_MESSAGES="sk_SK.utf8"
LC_PAPER="sk_SK.utf8"
LC_NAME="sk_SK.utf8"
LC_ADDRESS="sk_SK.utf8"
LC_TELEPHONE="sk_SK.utf8"
LC_MEASUREMENT="sk_SK.utf8"
LC_IDENTIFICATION="sk_SK.utf8"
LC_ALL=
```

At the begining of code, the laguage is set:

```
int language = LNGC_('S','K','S','K', CHARSET_UTF8);
SetLanguage(language);
```

Database is Postgresql 8.3,

Thanks in advance for any clue.

Subject: Re: localized formating of double on linux
Posted by cocob on Tue, 30 Dec 2008 15:25:01 GMT
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gtk_init() change libc behaviour according to locale setting.

I use this to remove the problems

setlocale(LC_ALL,"C");

Subject: Re: localized formating of double on linux
Posted by lokki on Tue, 30 Dec 2008 15:59:16 GMT
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Thanks a lot. Looks like it works now

Subject: Re: localized formating of double on linux
Posted by lokki on Sat, 03 Jan 2009 11:21:22 GMT
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Hello,

bad news

As posted previously, on Gentoo it works fine (development machine). Now trying to run Gentoo built executable on Ubuntu 10.8 ("production" machine). Same problem, the workaround for Gentoo doesn't work on Ubuntu. Don't know why, because locale on Ubuntu is set to:

LANG=sk_SK.UTF-8
LC_CTYPE="sk_SK.UTF-8"
LC_NUMERIC="sk_SK.UTF-8"
LC_TIME="sk_SK.UTF-8"
LC_COLLATE="sk_SK.UTF-8"
LC_MONETARY="sk_SK.UTF-8"
LC_MESSAGES="sk_SK.UTF-8"
LC_PAPER="sk_SK.UTF-8"
LC_NAME="sk_SK.UTF-8"
LC_ADDRESS="sk_SK.UTF-8"
LC_TELEPHONE="sk_SK.UTF-8"
LC_MEASUREMENT="sk_SK.UTF-8"
LC_IDENTIFICATION="sk_SK.UTF-8"
LC_ALL=

I tried to modify workaround a for whole locale configuration:

```
...
setlocale(LC_COLLATE,"sk_SK.UTF-8");
setlocale(LC_MONETARY,"sk_SK.UTF-8");
setlocale(LC_MESSAGES,"sk_SK.UTF-8");
...
setlocale(LC_ALL,"C");
```

But this doesn't help at all.

Thanks for any suggestions

Subject: Re: localized formating of double on linux
Posted by cocob on Sat, 03 Jan 2009 13:57:29 GMT
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do you use setlocale(LC_ALL,"C"); after GUI initialization ?

Subject: Re: localized formating of double on linux
Posted by lokki on Sat, 03 Jan 2009 14:09:57 GMT
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Hello,

I don't know when the GUI is initialised exactly. I set language and locale in first lines of GUI_APP_MAIN. The code looks like this...

```
GUI_APP_MAIN
{
 int language = LNGC_('S','K','S','K', CHARSET_UTF8);
 SetLanguage(language);
 setlocale(LC_ALL,"C");
....
```

edit: So it is executed before the main window is instantiated and run.

Subject: Re: localized formating of double on linux
Posted by cocob on Sun, 04 Jan 2009 10:55:54 GMT
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I think this is the problem.

In my app i use setLocal in my main window constructor

Subject: Re: localized formating of double on linux
Posted by lokki on Mon, 05 Jan 2009 19:11:35 GMT
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OK, tried and didn't work.

I'm going to investigate it furher, but I'm very surprised. I wouldn't believe such thigs can happen between two unix systems (running same executable/source).

Looks to me, like I have something set up differently according to localization in Ubuntu (I checked locale variables, but don't know what else to check.. libc version??...)

Thanks for help cocob, in Gentoo it works perfectly (but not Ubuntu).

Subject: Re: localized formating of double on linux
Posted by lokki on Mon, 05 Jan 2009 19:48:02 GMT
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Subject: Re: localized formating of double on linux
Posted by lokki on Sun, 01 Feb 2009 17:37:56 GMT
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Hello,

just to let you know, after experimenting with Ubuntu, I didn't find any solution of this problem. Switching production environment to Open SUSE 11.1 running KDE helped. Probably GNOME on Ubuntu was causing the problem some way, I wasn't able to resolve. Devel Gentoo was running KDE as well, that's why I think this way. Development machine was swithced to Open SUSE afterwards as well.

Subject: Re: localized formating of double on linux
Posted by zsolt on Tue, 13 Jul 2010 20:18:13 GMT
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Put an extra line into /etc/locale.alias:
sk_SK sk_SK.UTF-8
and run the command
locale-gen

from console.

I think it would be better to fix this in UPP code and trying locale with ".UTF-8" suffix when "sk_SK" type locale didn't succeed.
