
Subject: Please help debug this program (Re: EditDouble with customized Convert)
Posted by [Lance](#) on Sat, 30 Nov 2013 03:35:56 GMT

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See attached for a minimal test case.

In the program, numbers are formatted to certain format which works as expected, but when the formatted text is dragging around between the Edits, an assertion failure is caused supposedly because of some inconsistency between the length of the text dragged and that of the text in the internal storage of EditField.

It's highly suspected to be some sort of library bug. But I stand corrected if it's because I missed some step or what not.

Thank you for your help in advance.

File Attachments

1) [EditTest.zip](#), downloaded 332 times

Subject: Re: Please help debug this program (Re: EditDouble with customized Convert)

Posted by [Lance](#) on Sat, 30 Nov 2013 03:41:01 GMT

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BTW, I failed to find a way to conveniently format eg

123456.5

to

123,456.50

using existing Upp facilities. It's greatly appreciated if somebody can show me the right way. For example, I use GridCtrl's SummaryRow (or something like that); it accepts a format string and format the column total to that format. It's easy to write a format function, but hard to incorporate it to the Upp::Format(format, ValueArray) facility. If you know how to, please let me know.

Subject: Re: Please help debug this program (Re: EditDouble with customized Convert)

Posted by [Lance](#) on Sat, 30 Nov 2013 15:23:19 GMT

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OK. I figured out.

The problem occurs because I SHOULD HAVE provided a matching filter to NOT TO replace

comma with dot (the default behavior it inherits from its parent ConvertDouble), but should instead filter out it. Morale is, Scan/Format/Filter should work together to assure the EditField is in a consistent state.

The second question, if you want to format a double to certain decimal digits and with thousand separator, you should:

1. SetLange properly;
2. The format string should be something like this "%3!nl", which will format the number to 3 decimal points and with localized thousand separators. Eg, in enUS, 12345.6 will be formatted to 12,345.600.

I had to go through the code to figure it. Maybe a example line can be added to the Format example to save somebody else some trouble in the future.

=====

CORRECTION: the problem remains after a customized filter has been provided to take care of the comma separator. Now I am almost positive that it's a bug in the library.

I have attached a slightly revised test case. Just drag the text between the edits a few times, you WILL observe erratic behavior.

File Attachments

1) [EditTest.zip](#), downloaded 328 times

Subject: Re: Please help debug this program (Re: EditDouble with customized Convert)

Posted by [Lance](#) on Fri, 06 Dec 2013 17:33:53 GMT

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The following change to EditField::Insert(int, const WString&) will fix the problem. I believe this should be regarded as a library bug and should be fixed to honor EditField's promise to work with customized Convert.

```
int EditField::Insert(int pos, const WString& itext)
{
    // omitted many unchanged lines
    //
    // the following test might need to be rewritten
    // taking the Format/Scan effect into account
    //
    if(ins.GetCount() + text.GetCount() > maxlen) {
        BeepExclamation();
        return 0;
    }
}
```

```
//changes =====  
int len=text.GetLength();  
text.Insert(pos, ins);  
SetData(GetData()); // might be smarter way to achieve it  
len-=text.GetLength();  
Update();  
return -len;  
}
```

After insert action, the text the EditField held in its internal storage becomes different from what it displays (because of the customized Format). This should not happen. Above code did the synchronization. I feel that it's not the best place to do such synchronization. Mirek will certainly be able to find the best and most economic way to achieve such synchronization, but one is indeed needed.

Subject: Re: Please help debug this program (Re: EditDouble with customized Convert)

Posted by [mirek](#) on Mon, 09 Dec 2013 07:19:35 GMT

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Hopefully fixed. Thanks for the report.

Mirek

Subject: Re: Please help debug this program (Re: EditDouble with customized Convert)

Posted by [Lance](#) on Mon, 09 Dec 2013 15:52:52 GMT

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Thank you, Mirek!
