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Subject: Sorting problem. Please Help!

Posted by [sergeynikitin](#) on Mon, 09 Aug 2010 07:45:29 GMT

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Trouble with Sorting data in GridCtrl. Maybe this bug is not due GridCtrl.

1. During the sorting text column - the number should be sorted as strings. For example, if there are 3 lines -

"3" "1" "123"

- then the string should be sorted in the order

"1" "123" "3",

but actually are in order

- "1" "3" "123".

How do I fix this?

2. If the text column, there are Russian characters, for some reason the sorting algorithm takes this value as a number and get for example this situation:

There are three lines:

"Albert" "Albert Aaaaaaaaaaaaaaaaaaaaaa" "Albert Zbiven"

actually they are in order of

"Albert" "Albert Zbiven" "Albert Aaaaaaaaaaaaaaaaaaaaaa", although it is clear that this order is incorrect.

For Russian characters even seen an issue where if you sort the letters jump so that about any sort is out. For example last names may go in order

problem right alphabetical order, something deeper, something I do not really understand.

TestCase (compiled from Grid01 of the tutorial) shows both problems. The screenshot can be seen both.

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## File Attachments

1) [Shot.png](#), downloaded 562 times

2) [Grid01.zip](#), downloaded 518 times

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Subject: Re: Sorting problem. Please Help!

Posted by [unodgs](#) on Mon, 09 Aug 2010 08:16:27 GMT

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The problem lies in StdValueCompare function which uses DefaultLanguageCompare. I will take a look at it later.

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Subject: Re: Sorting problem. Please Help!

Posted by [sergeynikitin](#) on Mon, 09 Aug 2010 08:46:23 GMT

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But Numbers in string columns is different problem. (Despite this, I hope to help).

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Subject: Re: Sorting problem. Please Help!

Posted by [unodgs](#) on Mon, 09 Aug 2010 09:10:59 GMT

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I analyzed DefaultLanguageCompare and this function can recognize the number even if it was passed as a string. So when comparing numbers  $123 > 3$ . I know this is incorrect from developer point of view but for user 123 and 3 are numbers not strings. And I think this is correct behavior. As for second case I cannot reproduce it. The order is correct. In grid I can see "Albert", "Albert Aaaaaaaaaaaaaaaaaaaaaa", "Albert Zbiven"

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Subject: Re: Sorting problem. Please Help!

Posted by [sergeynikitin](#) on Mon, 09 Aug 2010 10:40:49 GMT

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"Albert", "Albert Aaaaaaaaaaaaaaaaaaaaaa", "Albert Zbiven" - This names only for problem descriptions. Real problem with Russian names. U++ (or GridCtrl) work with Russian strings as with numbers.

(I use Russian values in TestCase.)

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Subject: Re: Sorting problem. Please Help!

Posted by [unodgs](#) on Mon, 09 Aug 2010 10:51:51 GMT

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Russian strings are treated as strings (I checked this), however the algorithm used for comparison is not understandable for me (at least now). Maybe Mirek could shed some light at it.

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Subject: Re: Sorting problem. Please Help!

Posted by [sergeynikitin](#) on Mon, 09 Aug 2010 10:55:13 GMT

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About String Number sorting...

If I use strings "1f" "2f" "3f" "123f" "34f" U++ sorts this as

"1f"

"2f"

"34f"

"123f"

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In this case, we can not talk about numbers in a string variable.

I understand that system sorting algorithm - failed, or works in unforeseen circumstances.

So this problem is likely not only GridCtrl. That is, it may appear in other places.

From GridCtrl can solve this problem, delegate sorting in database. How to deal with this in other places - is unclear.

All the same, may be to introduce the sort parameter - numeric data or text?

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Subject: Re: Sorting problem. Please Help!

Posted by [sergeynikitin](#) on Mon, 09 Aug 2010 10:58:31 GMT

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unodgs wrote on Mon, 09 August 2010 14:51 Russian strings are treated as strings (I checked this), however the algorithm used for comparison is not understandable for me (at least now). Maybe Mirek could shed some light at it.

Yes this testcase show type of value in 3-d column (3-string).

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