Subject: DBF crash error while writing record
Posted by forlano on Thu, 23 Oct 2014 17:25:42 GMT
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Hello,

I know that DBF format is no longer popular. Unfortunately I had to deal with it and get rid a very old Xbase library.
I created a very simple application that convert a text file in a dbf file. It links and run, but crash while tempting to write.
The DBF db is created reading the info contained in the txt file that look like this:

```
8
D_EVENT_ID   C   9
D_SEC_NUM    C   2
D_PAIR_NUM   C   4
D_REC_SEQ    C   1
D_MEM_ID     C   8
D_RND01      C   5
D_RND02      C   5
D_RND03      C   5
023434001 1 1 1 156756756 W  4 L  2 W  6
023434001 1 2 1 456456456 W  5 W  1 L  3
023434001 1 3 1 567567567 D  6 W  4 W  2
023434001 1 4 1 324234234 L  1 L  3 W  5
023434001 1 5 1 234234234 L  2 D  6 L  4
023434001 1 6 1 123123455 D  3 D  5 L  1
```

That is I read the number of fields, how they are made and then the records (fields separated by '\t').
A test case is attached with the txt files to be converted. Here is the simple program so that you can preview it:


```cpp
#include <CtrlLib/CtrlLib.h>
#include <plugin/dbf/dbf.h>

using namespace Upp;
void ConvertDB(String fn);

GUI_APP_MAIN
{
  ConvertDB("thexport");
  ConvertDB("tsexport");
  ConvertDB("tdexport");
}

void ConvertDB(String fn)
```

```
{
   String infile = fn + ".txt";
 String outfile = fn + ".dbf";
   FileIn in;
   in.Open(infile);
   if (in.IsError()) {
    Exclamation("Error reading the file " + infile);
    exit(0);
   }

   int numFields = StrInt(in.GetLine()); // read numebr of fields
   int i;
 Array<DbfStream::Field> fields;
   for (i=0; i<numFields; i++)
    {  // legge le specifiche dei campi
      Vector<String> f = Split(in.GetLine()," ");
      //Exclamation(f[0]+"-"+f[1]+"-"+f[2]);
      if     ( f[1]=="C") fields << DbfStream::Field::Text(f[0], StrInt(f[2]) );
      else if ( f[1]=="N") fields << DbfStream::Field::Number(f[0], StrInt(f[2]), 0);
      else if ( f[1]=="D") fields << DbfStream::Field::Date(f[0]);
      else Exclamation("error");
    }

 DbfStream output; //create DB
 bool isOpened = output.Create(outfile, fields, CHARSET_CP852);
 if(!isOpened)
 {
 PromptOK("Error creating file [* \1" + outfile + "\1].");
 exit(1);
 }

 while (in.IsOK()) //continue to read the txt file and write the dbf
 {
 Vector<Value> values;
 Vector<String> f = Split( in.GetLine(), "\t", false);
 if (f.GetCount()<=1) break;

 for (int k=0; k<f.GetCount(); k++) values.Add(f[k]);
 output.WriteRow(values); // <----- ??? crash program
 }

 output.Close();
 in.Close();
}


Thanks,
Luigi
```

Subject: Re: DBF crash error while writing record
Posted by mirek on Wed, 29 Oct 2014 09:09:13 GMT

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Hi,

the problem seems to be is that you are passing "String" Values for "double" ("N") columns. It crashes on Value conversion.

You will have to convert texts into correct Value types to make it work.

Mirek

Subject: Re: DBF crash error while writing record
Posted by forlano on Sat, 25 Apr 2015 09:08:49 GMT

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Hi Mirek,

mirek wrote on Wed, 29 October 2014 10:09Hi,

the problem seems to be is that you are passing "String" Values for "double" ("N") columns. It crashes on Value conversion.

You will have to convert texts into correct Value types to make it work.

At last I solved the problem with "N" field (just use Integer field and cast the String with StrInt()) but now appear problems for "D", date field.
How can I convert the String to Date and add it correctly in
values.Add(...);
I have not find any method to cast a string in the date format used by dbfstream.

Thanks,
Luigi

Subject: Re: DBF crash error while writing record
Posted by mirek on Sun, 26 Apr 2015 11:59:50 GMT

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forlano wrote on Sat, 25 April 2015 11:08Hi Mirek,

mirek wrote on Wed, 29 October 2014 10:09Hi,

the problem seems to be is that you are passing "String" Values for "double" ("N") columns. It crashes on Value conversion.

You will have to convert texts into correct Value types to make it work.

At last I solved the problem with "N" field (just use Integer field and cast the String with StrInt()) but now appear problems for "D", date field.
How can I convert the String to Date and add it correctly in
values.Add(...);
I have not find any method to cast a string in the date format used by dbfstream.

Thanks,
Luigi

Well, depends on date format... Use some combo of .Mid, atoi, StrInt .....