Hallo guys,
how are you? Maybe someone remember me... I have not been coding for a long time and I'm back to you for an help with my new project.

To speed up a working activity I have to Open a positional TXT, I have to analyse it and export it as a CSV. I'm used to import and elaborate it in Access but the file is everyday bigger and it is going exceede Access limits in a short time so I was thinking about a dedicate tool. Is it something I can easy do with UPP?

It is a positional txt with 650 character for line and about 800k lines at the moment (and I have to skip the first and last line)...

Any suggestion about the right approach to the project?
Someone can help me to start this project?

Best regards,
Matteo

---

you can start with this:

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

using namespace Upp;

Vector<String> SplitLine(String& line)
{
    // example
    return Split(line, "\t", false);
}

GUI_APP_MAIN
{
    String s = LoadFile(TXT_file_path);
    StringStream ss(s);
    FileOut out(csv_file_path);
    while(!ss.IsEof() && !ss.IsError())
    {
        String line = ss.GetLine();
        Vector<String> fields = SplitLine(line);
    }
```
if(!fields.GetCount()) continue;

String r = CsvString(fields[0]);
for(int i = 1; i < fields.GetCount(); i++)
    r << ";" << CsvString(fields[i]);

r << 
;

out << r;
}
}

Subject: Re: Read txt, analyze and convert to csv
Posted by idkfa46 on Wed, 18 Mar 2020 12:27:15 GMT
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Thank you, Omari!
Now I can open, read my txt and export my csv.

The only problem is that each line of my txt has a structure like this:

X - Field name         - Type  - Pos. - Length
1 - Distribution Type  - A/N  - 1  - 3
2 - Distribution date  - A/N  - 4  - 8
3 - Application date   - A/N  - 12 - 8
4 - Sales organization - A/N  - 20 - 4

and I have to split each line following "Pos" and Length rules.

Thanks,
Matteo

Is there any dedicate solution to do it?

Subject: Re: Read txt, analyze and convert to csv
Posted by omari on Wed, 18 Mar 2020 16:31:59 GMT
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Vector<String> SplitLine(String& line)
{
    ASSERT(line.GetCount() >= 23);
    Vector<String> r;
}
r.Add() = line.Mid(0, 3);
r.Add() = line.Mid(3, 8);
r.Add() = line.Mid(11, 8);
r.Add() = line.Mid(19, 4);

return r;
}

Subject: Re: Read txt, analyze and convert to csv
Posted by idkfa46 on Fri, 20 Mar 2020 08:40:17 GMT

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Good! thanks you so much!

The while cicle take a lot of time because the file I'm going to read is 800k rows so I decided to introduce a ProgressIndicator to monitor it. The problem is that at the moment the progress indicator appear only at the end of the process so it is useless... Why?

PriceListGenerator::PriceListGenerator()
{
CtrlLayout(*this, "PriceList Generator");

//menù-tool-status
AddFrame(menu);
AddFrame(tool);
AddFrame(status);
menu.WhenHelp = status;
tool.WhenHelp = status;
menu.Set(THISBACK(MainMenu));
tool.Set(THISBACK(SubBar));

//Progress
status.Add(pi.RightPos(5, 200).TopPos(2, 15)); //Indicator inside my statusBar
pi.Percent();
pi.Hide();

//String s = LoadFile(TXT_file_path);
generate <<= THISBACK(LoadPriceList);
//LoadPriceList(s);
}

void PriceListGenerator::LoadPriceList()
{
String s = LoadFile("C:\Users\Matteo\Desktop\prova.txt");
StringStream ss(s);

int x = 0;
pi.Show();
//pi.Set(x,1000); //how can I get the right number of rows?

FileOut out("C:\Users\Matteo\Desktop\output.csv");
out << AddHeader();

while(!ss.IsEof() && !ss.IsError())
{
  String line = ss.GetLine();
  Vector<String> fields = SplitLine(line);
  pi.Set(x++);                       // ProgressIndicator

  if(!fields.GetCount()) continue;

  String r = CsvString(fields[0]);
  for(int i = 1; i < fields.GetCount(); i++)
  {
    r << ";" << CsvString(fields[i]);
  }
  r << "\n";
  out << r;
}

It could be a problem about statusBar?
Moreover, if I would like to show the percentage how can I get the total number of rows?

Best,
Matteo
1 - you can call ProcessEvents(); after the call if (x % 200 == 0) pi.Set(x++);

2 - Quote: pi.Set(x, 1000); // how can I get the right number of rows?

    pi.Set(x, s.GetCount() / lineSize);

    in your case, i think, lineSize = 24.

---

Subject: Re: Read txt, analyze and convert to csv
Posted by idkfa46 on Tue, 24 Mar 2020 14:52:16 GMT

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You rock!
thank you Omari!

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Subject: Re: Read txt, analyze and convert to csv
Posted by idkfa46 on Wed, 25 Mar 2020 19:26:13 GMT

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Going ahead with the development of my tool I discovered this strange situation:

here is and example my csv output:

"20200103";"0113E0";"SEMICUSCINETTO";"00000001594";"H";Common part
"20200103";"0113E1";"SEMICUSCINETTO";"00000001582";"H";Common part
"20200103";"0113E2";"SEMICUSCINETTO";"00000002264";"H";Common part
"20200103";"0113E3";"SEMICUSCINETTO";"00000001667";"H";Common part
"20200103";"0113E4";"SEMICUSCINETTO";"00000001667";"H";Common part

The problem is that opening it with microsoft Excel the are part numbers like "0113E2" are automatically converted in a scientific format and becaome 1,13E+02...

Maybe the solution to force it like a Text should be to include a ' at the beginning of the number...

What do you think?

Best,
Matteo
The ' doesn't work! :?

Matteo

Is there a way to convert my CSV in XLS file formatting all cells a text?
Following the Excel import procedure and setting columns as Text I can avoid the data conversion...

Best,
Matteo

try this solution : (putting '=' at the beginning )

"20200103";="0113E0";="SEMUCSCINETTO";="00000001594";"H";Common part
"20200103";="0113E1";="SEMUCSCINETTO";="00000001582";"H";Common part
"20200103";="0113E2";="SEMUCSCINETTO";="00000002264";"H";Common part
"20200103";="0113E3";="SEMUCSCINETTO";="00000001667";"H";Common part
"20200103";="0113E4";="SEMUCSCINETTO";="00000001667";"H";Common part

Outstanding!

Thanks,
Matteo