
Subject: Read txt, analyze and convert to csv
Posted by [idkfa46](#) on Sun, 15 Mar 2020 15:52:23 GMT
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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 excede 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

Subject: Re: Read txt, analyze and convert to csv
Posted by [omari](#) on Tue, 17 Mar 2020 08:45:20 GMT
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you can start with this:

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

```
using namespace Upp;
```

```
Vector<String> SpliteLine(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 = SpliteLine(line);
    }
}
```

```
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;
}
}
```

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> SpliteLine(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 = SpliteLine(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

Subject: Re: Read txt, analyze and convert to csv
Posted by [idkfa46](#) on Mon, 23 Mar 2020 12:21:08 GMT
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Any idea?

Matteo

Subject: Re: Read txt, analyze and convert to csv
Posted by [omari](#) on Tue, 24 Mar 2020 14:20:41 GMT
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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!

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 an example of 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 part numbers like "0113E2" are automatically converted in a scientific format and became 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

Subject: Re: Read txt, analyze and convert to csv
Posted by [idkfa46](#) on Thu, 26 Mar 2020 09:50:44 GMT
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The ' doesn't work! :?

Matteo

Subject: Re: Read txt, analyze and convert to csv
Posted by [idkfa46](#) on Tue, 31 Mar 2020 07:57:50 GMT
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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

Subject: Re: Read txt, analyze and convert to csv
Posted by [omari](#) on Tue, 31 Mar 2020 13:17:00 GMT
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try this solution : (putting '=' at the beginning)

"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

Subject: Re: Read txt, analyze and convert to csv
Posted by [idkfa46](#) on Tue, 31 Mar 2020 14:35:43 GMT
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Outstanding!

Thanks,
Matteo
