
Subject: Problem loading very large data files

Posted by [DMStevenson](#) on Thu, 13 Feb 2025 21:45:49 GMT

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I am still new, and am having problems loading data from very large files (>35MB) into Vectors. I know this works in other languages, and being new I might be missing something obvious. With smaller data files the load time into Vectors is quite fast, but with very large files the system hangs up, and will simply not proceed (no error message). Has anyone had any experience with this?

Subject: Re: Problem loading very large data files

Posted by [koldo](#) on Fri, 14 Feb 2025 08:45:46 GMT

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Dear DMStevenson

What you are talking about is unusual. I use vectors of very large sizes on a daily basis with great efficiency.

Please include a small example code and tell us the basic characteristics of your computer and operating system.

This will make it easier for us to find the cause of the problem.

Subject: Re: Problem loading very large data files

Posted by [DMStevenson](#) on Fri, 14 Feb 2025 15:46:19 GMT

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Thanks for the reply Koldo. As a Newbie I continue to learn quickly, and have found that, over time, my large files do load, but they simply do not appear in a DocEdit for a while. For the code below I expected the contents of a file to appear line-by-line. Instead it seems to completely fill a buffer and *then* is posted to the DocEdit. Am I correct in this? My aim is *NOT* to fill a DocEdit with a huge amount of text, but I was doing this just as a programming step... Thanks,
DMStevenson

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

```
using namespace Upp;
```

```
struct WindowType : TopWindow {  
    Button button;  
    String FileName;  
    DocEdit memo;  
    Progress progress1;  
    Vector<String> DataLines;
```

```
    void ReadFile(String file_name) {  
        String line;
```

```

FileIn infile;
if (infile.Open(file_name)) {
    while(!infile.IsEof()) {
        line = infile.GetLine();
        memo.Append(line);
        memo.Append("\n");
        DataLines.Add(line);
    }
}
infile.Close();
}

WindowType()
{
    Title("File Read");
    button << [=] {
        FileName = SelectFileOpen("All Files\t*. *");
        ReadFile(FileName); };
    button.SetLabel("Get File");
    Add(button.LeftPos(10, 60).TopPos(10, 30));
    Add(memo.LeftPos(10, 680).TopPos(50, 430));
}
};

GUI_APP_MAIN
{
    WindowType app;
    app.SetRect(0,0,700,500);
    app.Run();
}

```

Subject: Re: Problem loading very large data files
Posted by [koldo](#) on Sat, 15 Feb 2025 15:14:00 GMT
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Hi DMStevenson

You haven't done badly, but I'm including your modified code to be more similar to how I would have done it.

(remember to use the Forum {...} option to include code)

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

```
using namespace Upp;
```

```
struct WindowType : TopWindow {
```

```

Button button;
String FileName;
DocEdit memo;
//Progress progress1;
//Vector<String> DataLines;

void ReadFile(String file_name) {
    String line;
    FileIn infile;
    if (infile.Open(file_name)) //{
        memo.Load(infile);
        //while(!infile.IsEof()) {
        // line = infile.GetLine();
        // memo.Append(line);
        // memo.Append("\n");
        // DataLines.Add(line);
        //}
        //}
        //infile.Close();
    }

    WindowType()
    {
        Title("File Read");
        button << [=] {
            FileName = SelectFileOpen("All Files\t*. *");
            ReadFile(FileName); };
        button.SetLabel("Get File");
        Add(button.LeftPos(10, 60).TopPos(10, 30));
        Add(memo.LeftPos(10, 680).TopPos(50, 430));
    }
};

GUI_APP_MAIN
{
    WindowType app;
    app.SetRect(0,0,700,500);
    app.Run();
}

```

Subject: Re: Problem loading very large data files
Posted by [DMStevenson](#) on Mon, 17 Feb 2025 19:45:40 GMT
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Thanks for the reply! You modified code is helpful. I have a follow-up question, mostly out of academic interest. Is there a way to simply modify the above code to 'post' each line individually? That is, post the line to the DocEdit before retrieving another line (As I am used to in Fortran or

Pascal). Of course I could use command line, or rewrite the code, but is there a simple modification that could be added to the existing code?

Subject: Re: Problem loading very large data files
Posted by [koldo](#) on Tue, 18 Feb 2025 07:14:21 GMT
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Hi DMStevenson

In that case you can simply use Insert() or Append(). This is slower than doing a Load().

Subject: Re: Problem loading very large data files
Posted by [Oblivion](#) on Tue, 18 Feb 2025 07:14:45 GMT
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Hello DMStevenson,

Quote: That is, post the line to the DocEdit before retrieving another line

```
if (infile.Open(file_name)) {  
    while(!infile.IsEOF()) {  
        line = infile.GetLine();  
        memo.Append(line + "\n");  
        // Do some stuff...  
    }  
}
```

This posts (appends) the line to DocEdit before retrieving the next line. Then you can do some other stuff in the loop if you need to.

Best regards,
Oblivion
