
Subject: Re: BUG? or Not BUG? LoadFile(filename) and then getting wrong data
Posted by [Sender Ghost](#) on Sun, 07 Aug 2011 20:47:27 GMT
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Hello, David.

silverx wrote on Sat, 06 August 2011 10:58
Should I use some other way to load the data into the program?

You can use FileStream directly to read file or just FileIn:

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

```
using namespace Upp;
```

```
inline String PrintUsage() {  
    StringBuffer sb;  
    sb << "Prints hex view of selected file\n\n\  
Syntax:\n\  
<< GetExeTitle() << " [file]\n\n\  
Options:\n\  
file\t\t Path to selected file\n";  
    return sb;  
}
```

```
CONSOLE_APP_MAIN  
{  
    const Vector<String>& cl = CommandLine();  
  
    if (cl.GetCount() == 0)  
    {  
        SetExitCode(0);  
        Cout() << PrintUsage();  
        return;  
    }
```

```
    String filePath(NormalizePath(cl[0]));
```

```
    if (!FileExists(filePath))  
    {  
        SetExitCode(1);  
        Cerr() << Format("File \"%s\" doesn't exists\n", filePath);  
        return;  
    }
```

```
    FileIn fs;
```

```

if (!fs.Open(filePath))
{
    SetExitCode(1);
    Cerr() << Format("Can't read \"%s\" file\n", filePath);
    return;
}

const int wrapCount = 16;
int lineCount = 0,
    columnCount = 0;

StringBuffer text;

while (!fs.IsEof())
{
    if (columnCount == 0)
        Cout() << Format("%7s:", Format64Hex(lineCount++ * wrapCount));

    const int data = fs.Get();
    text.Cat(!isctrl(data) ? char(data) : '.');
    const String hex = Format64Hex(data);
    Cout() << Format(" %2s", hex);

    if (++columnCount == wrapCount)
    {
        columnCount = 0;
        Cout() << " | " << ~text << "\n";
        text.Clear();
    }
}

if (text.GetCount() > 0)
{
    const String fmt = String().Cat() << '%' << 3 * (wrapCount - columnCount + 1) << 's';
    Cout() << Format(fmt, " | ") << ~text << "\n";
}
}

```

With OutStream implementation, while copying (for files larger than 128 bytes):

```

#include <Core/Core.h>

using namespace Upp;

inline String PrintUsage() {
    StringBuffer sb;
    sb << "Prints hex view of selected file\n\n"

```

```

Syntax:\n"
<< GetExeTitle() << " [file]\n\n\
Options:\n\
file\t\t Path to selected file\n";
return sb;
}

class HexStream : public OutStream {
private:
    const int wrapCount;
    int columnCount,
        lineCount;
    Stream *stream;
public:
    HexStream(Stream *toStream) : stream(toStream), wrapCount(16), columnCount(0), lineCount(0)
    {}

    virtual void Out(const void *data, dword size)
    {
        StringBuffer text;

        const byte *s = (const byte *)data;

        for (dword i = 0; i < size; ++i)
        {
            if (columnCount == 0)
                *stream << Format("%7s:", Format64Hex(lineCount++ * wrapCount));

            const byte& value = s[i];
            text.Cat(!isctrl(value) ? char(value) : '.');
            const String hex = Format64Hex(value);
            *stream << Format(" %2s", hex);

            if (++columnCount == wrapCount)
            {
                columnCount = 0;
                *stream << " | " << ~text << '\n';
                text.Clear();
            }
        }

        if (text.GetCount() > 0)
        {
            const String fmt = String().Cat() << '%' << 3 * (wrapCount - columnCount + 1) << 's';
            *stream << Format(fmt, " | ") << ~text << '\n';
        }
    };
};

```

```

CONSOLE_APP_MAIN
{
    const Vector<String>& cl = CommandLine();

    if (cl.GetCount() == 0)
    {
        SetExitCode(0);
        Cout() << PrintUsage();
        return;
    }

    String filePath(NormalizePath(cl[0]));

    if (!FileExists(filePath))
    {
        SetExitCode(1);
        Cerr() << Format("File \"%s\" doesn't exists\n", filePath);
        return;
    }

    FileIn fs;

    if (!fs.Open(filePath))
    {
        SetExitCode(1);
        Cerr() << Format("Can't read \"%s\" file\n", filePath);
        return;
    }

    HexStream stream(&Cout());
    /*const int64 count =*/
    CopyStream(stream, fs);
}

```

Edit: Added example with OutStream.
