
Subject: CParser: proposal of new functions
Posted by [omari](#) on Wed, 16 May 2012 16:40:32 GMT
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Hello ,

I have to load data in a Vector<TestCase>
the struct of the data file is:

TEST CASE:

 Name of Test case: TC_0000
 Test case version: 1
 Author:
 Date: 10/05/2012
 Test type: nominal
 SRD_REQUIREMENT: SRD-REQ-0628
 SRD version: G02
 Precondition:
 ...
 Description:
 visit LoginPage
 enter userID

 Expected Result:
 ...

END OF TEST CASE

to do that i use CParser and i have added a couple of function:

in CParser.h:

```
bool IsId2(const char *s1, const char *s2) const;  
bool IsId3(const char *s1, const char *s2, const char *s3) const;  
bool Id2(const char *s1, const char *s2);  
bool Id3(const char *s1, const char *s2, const char *s3);  
String ReadId2() throw(Error);  
String ReadId3() throw(Error);  
String ReadUntil(int delim);  
String ReadLine() {return ReadUntil('\n');}
```

the function ReadUntil is based on ReadOneString()

if you find this functions useful, i would be glad if you add them to CParser..

in CParser.cpp:

```

bool CParser::IsId2(const char *s1, const char *s2) const
{
    CParser p = *this;

    if (!p.Id(s1)) return false;

    return p.IsId(s2);
}

```

```

bool CParser::IsId3(const char *s1, const char *s2, const char *s3) const
{
    CParser p = *this;

    if (!p.Id(s1)) return false;
    if (!p.Id(s2)) return false;

    return p.IsId(s3);
}

```

```

bool CParser::Id2(const char *s1, const char *s2)
{
    CParser p = *this;

    if (!p.Id(s1)) return false;
    if (!p.Id(s2)) return false;

    *this = p;

    return true;
}

```

```

bool CParser::Id3(const char *s1, const char *s2, const char *s3)
{
    CParser p = *this;

    if (!p.Id(s1)) return false;
    if (!p.Id(s2)) return false;
    if (!p.Id(s3)) return false;

    *this = p;

    return true;
}

```

```
String CParser::ReadId2() throw(Error)
{
    String ret = "";

    ret << ReadId();
    const char* p = GetSpacePtr();
    ret << String(p, term - p);
    ret << ReadId();

    return ret;
}
```

```
String CParser::ReadId3() throw(Error)
{
    String ret = "";

    ret << ReadId();
    const char* p = GetSpacePtr();
    ret << String(p, term - p);
    ret << ReadId();
    p = GetSpacePtr();
    ret << String(p, term - p);
    ret << ReadId();

    return ret;
}
```

```
String CParser::ReadUntil(int delim)
{
    StringBuffer result;

    for(;;) {
        if(*term == delim) {
            term++;
            DoSpaces();
            return result;
        }
        else
            if(*term == '\\') {
                switch(*++term) {
                    case 'a': result.Cat('\a'); term++; break;
                    case 'b': result.Cat('\b'); term++; break;
                    case 't': result.Cat('\t'); term++; break;
                    case 'v': result.Cat('\v'); term++; break;
                    case 'n': result.Cat('\n'); term++; break;
                    case 'r': result.Cat('\r'); term++; break;
                    case 'f': result.Cat('\f'); term++; break;
                    case 'x': {
```

```

int hex = 0;
if(IsXDigit(*++term)) {
    hex = ctoi(*term);
    if(IsXDigit(*++term)) {
        hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
        term++;
    }
}
result.Cat(hex);
break;
}
case 'u':
if(unescape) {
    int hex = 0;
    if(IsXDigit(*++term)) {
        hex = ctoi(*term);
        if(IsXDigit(*++term)) {
            hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
            if(IsXDigit(*++term)) {
                hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                if(IsXDigit(*++term)) {
                    hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                    term++;
                }
            }
        }
    }
}
result.Cat(WString(hex, 1).ToString());
}
else
    result.Cat(*term++);
break;
default:
if(*term >= '0' && *term <= '7') {
    int oct = *term++ - '0';
    if(*term >= '0' && *term <= '7')
        oct = 8 * oct + *term++ - '0';
    if(*term >= '0' && *term <= '7')
        oct = 8 * oct + *term++ - '0';
    result.Cat(oct);
}
else
    result.Cat(*term++);
break;
}
}
else {
    if(*term == '\\0')

```

```

    return result;
    result.Cat(*term++);
}
}

```

```

DoSpaces();
return result;
}

```

Thanks

Subject: Re: CParser: proposal of new functions
 Posted by [Sender Ghost](#) on Wed, 16 May 2012 19:08:14 GMT
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Hello, omari.

I think, you could do the same without changing the CParser class directly:

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

```
using namespace Upp;
```

```

class OmariCParser : public CParser {
public:
    bool IsId2(const char *s1, const char *s2);
    bool IsId3(const char *s1, const char *s2, const char *s3);
    bool Id2(const char *s1, const char *s2);
    bool Id3(const char *s1, const char *s2, const char *s3);
    String ReadId2() throw(Error);
    String ReadId3() throw(Error);
    String ReadUntil(int delim);
    String ReadLine() { return ReadUntil('\n'); }

    OmariCParser(const char *ptr) : CParser(ptr) { }
    OmariCParser(const char *ptr, const char *fn, int line = 1) : CParser(ptr, fn, line) { }
};

```

```

bool OmariCParser::IsId2(const char *s1, const char *s2)
{
    if (!Id(s1)) return false;
    return IsId(s2);
}

```

```
bool OmariCParser::IsId3(const char *s1, const char *s2, const char *s3)
```

```

{
    if (!ld(s1) || !ld(s2)) return false;
    return lsld(s3);
}

```

```

bool OmariCParser::ld2(const char *s1, const char *s2)
{
    if (!ld(s1) || !ld(s2)) return false;
    return true;
}

```

```

bool OmariCParser::ld3(const char *s1, const char *s2, const char *s3)
{
    if (!ld(s1) || !ld(s2) || !ld(s3)) return false;
    return true;
}

```

```

String OmariCParser::Readld2() throw(Error)
{
    String ret = "";

    ret << Readld();
    const char* p = GetSpacePtr();
    ret << String(p, term - p);
    ret << Readld();

    return ret;
}

```

```

String OmariCParser::Readld3() throw(Error)
{
    String ret = "";

    ret << Readld();
    const char* p = GetSpacePtr();
    ret << String(p, term - p);
    ret << Readld();
    p = GetSpacePtr();
    ret << String(p, term - p);
    ret << Readld();

    return ret;
}

```

```

String OmariCParser::ReadUntil(int delim)
{
    StringBuffer result;

```

```

for(;;) {
    if(*term == delim) {
        term++;
        DoSpaces();
        return result;
    }
    else
    if(*term == '\\') {
        switch(*++term) {
            case 'a': result.Cat('\a'); term++; break;
            case 'b': result.Cat('\b'); term++; break;
            case 't': result.Cat('\t'); term++; break;
            case 'v': result.Cat('\v'); term++; break;
            case 'n': result.Cat('\n'); term++; break;
            case 'r': result.Cat('\r'); term++; break;
            case 'f': result.Cat('\f'); term++; break;
            case 'x': {
                int hex = 0;
                if(IsXDigit(*++term)) {
                    hex = ctoi(*term);
                    if(IsXDigit(*++term)) {
                        hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                        term++;
                    }
                }
                result.Cat(hex);
                break;
            }
            case 'u':
                if(uescape) {
                    int hex = 0;
                    if(IsXDigit(*++term)) {
                        hex = ctoi(*term);
                        if(IsXDigit(*++term)) {
                            hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                            if(IsXDigit(*++term)) {
                                hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                                if(IsXDigit(*++term)) {
                                    hex = 16 * hex + (*term >= 'A' ? ToUpper(*term) - 'A' + 10 : *term - '0');
                                    term++;
                                }
                            }
                        }
                    }
                    result.Cat(WString(hex, 1).ToString());
                }
                else
                    result.Cat(*term++);
            }
        }
    }
}

```

```

        break;
    default:
        if(*term >= '0' && *term <= '7') {
            int oct = *term++ - '0';
            if(*term >= '0' && *term <= '7')
                oct = 8 * oct + *term++ - '0';
            if(*term >= '0' && *term <= '7')
                oct = 8 * oct + *term++ - '0';
            result.Cat(oct);
        }
        else
            result.Cat(*term++);
        break;
    }
}
else {
    if(*term == '\\0')
        return result;
    result.Cat(*term++);
}
}

DoSpaces();
return result;
}

CONSOLE_APP_MAIN
{
    const String filePath = "TestCase.txt";
    String text = LoadFile(filePath);

    if (text.IsVoid()) {
        SetExitCode(1);
        Cerr() << "Unable to load '" << filePath << "'\n";
        return;
    }

    OmariCParser p(text);
    try {
        // Parsing of text here
    }
    catch (OmariCParser::Error e) {
        Cerr() << "ERROR: " << e << '\n';
    }
}

```

The good example is Esc parser, based on CParser.

Subject: Re: CParser: proposal of new functions
Posted by [cbpporter](#) on Thu, 17 May 2012 08:04:08 GMT
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I'm curious what on earth were you trying to achieve with this :

```
bool CParser::ld2(const char *s1, const char *s2)
{
    CParser p = *this;

    if (!p.ld(s1)) return false;
    if (!p.ld(s2)) return false;

    *this = p;

    return true;
}
```

Subject: Re: CParser: proposal of new functions
Posted by [omari](#) on Thu, 17 May 2012 09:31:35 GMT
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Thank you all.

I post this message because i want to share this functions with others.

Here is an example of using functions ld2 () and ReadUntil ():

```
String name, date;
```

```
String str="request name: xxxxx \n request date: xxxxx";
```

```
CParser p(str);
```

```
if(p.ld2("request", "name"))
{
    p.PassChar(':');
    name=p.ReadUntil('\n');
}
else
if(p.ld2("request", "date"))
{
    p.PassChar(':');
    date=p.ReadUntil('\n');
}
```

and the function `Id2()` with a bit of comments:

```
bool CParser::Id2(const char *s1, const char *s2)
{
    // get a copy of the object
    CParser p = *this;

    // if not found s1 or s2, return false, dont change any thing in our object
    if (!p.Id(s1)) return false;
    if (!p.Id(s2)) return false;

    // if found s1 and s2, set the internal pointer of our object (term) to: after s2
    *this = p;

    return true;
}
```

Subject: Re: CParser: proposal of new functions
Posted by [mirek](#) on Sun, 20 May 2012 15:07:21 GMT
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cbpporter wrote on Thu, 17 May 2012 04:04I'm curious what on earth were you trying to achieve with this :

```
bool CParser::Id2(const char *s1, const char *s2)
{
    CParser p = *this;

    if (!p.Id(s1)) return false;
    if (!p.Id(s2)) return false;

    *this = p;

    return true;
}
```

Well, see the input file...

That said, I would rather use some other method, reading the input file line by line, separating anything before ':' to get id, and only use CParser on the rest of line.

I guess the line nature of file is something that is not quite compatible with CParser.

Subject: Re: CParser: proposal of new functions
Posted by [omari](#) on Tue, 22 May 2012 08:56:32 GMT
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Thanks a lot Mirek.
