Subject: Problem with XML
Posted by koldo on Sat, 11 May 2013 15:56:51 GMT
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Hello Mirek

Running this sample a "invalid Value type" exception is thrown:

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

using namespace Upp;

struct MyClass {
 Value val;
 void Xmlize(XmlIO& xml) {
  xml
   ("Val", val);
 }
};

CONSOLE_APP_MAIN
{
 MyClass demo;

 String fileName = AppendFileName(GetDesktopFolder(), "demo.xml");

 try {
  LoadFromXMLFile(demo, fileName);
 } catch (XmlError error) {
  Cout() << "\nError: " << error;
 }
 ReadStdIn();
}
```

demo.xml
```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<!DOCTYPE Demo>
<Demo>
</Demo>
```

A possible but ugly solution is to remove lines 405-406 in Value.cpp:

```
 if(Upp::IsNull(type))
  throw XmlError("invalid Value type");
```

In addition it would be great if LoadFromXML() would throw the exception to let the program to

handle the errors, like this:
```
 catch(XmlError error) {
  throw error;
 }
```

Now the XmlErrors do not arrive to the program as LoadFromXML() catch them but do not re-throw them.

Subject: Re: Problem with XML
Posted by mirek on Sun, 12 May 2013 10:22:49 GMT
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Well, it is sort of question whether such XML should be considered OK or buggy for Xmlize, however, I have changed the code to assign void Value in case that value is missing.

As for LoadFromXML* catching exception, well, that is the defined contract, it simply returns false in case of any error.

Perhaps we could implement another set LoadFrom*X that does throw exception...

Mirek

Subject: Re: Problem with XML
Posted by koldo on Sun, 12 May 2013 12:22:46 GMT
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Hello Mirek

Thank you for the Value issue. Actually U++ XML functions let to change Xmlize() functions without throwing errors. That is excellent because it permits developers to install new versions that will handle gracefully old user xml files.

This was in my case the reason of finding the error.

About the exceptions: XML files can be changed by hand by users. It is good to know not only that the file format is wrong, but what is the failure and where is it to guide the user to solve it.

Subject: Re: Problem with XML
Posted by koldo on Sun, 12 May 2013 13:56:33 GMT
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Hello Mirek

There is a DDUMP() in XML.h that is a compiling error in release mode.

Subject: Re: Problem with XML
Posted by mirek on Mon, 13 May 2013 06:57:54 GMT
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koldo wrote on Sun, 12 May 2013 08:22
About the exceptions: XML files can be changed by hand by users. It is good to know not only that the file format is wrong, but what is the failure and where is it to guide the user to solve it.

Added to RM.

Subject: Re: Problem with XML
Posted by mirek on Sat, 25 May 2013 11:30:20 GMT
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mirek wrote on Mon, 13 May 2013 02:57koldo wrote on Sun, 12 May 2013 08:22
About the exceptions: XML files can be changed by hand by users. It is good to know not only that the file format is wrong, but what is the failure and where is it to guide the user to solve it.

Added to RM.

Applied patch by Sender Ghost that provides TryLoadFromXML* functions.

Subject: Re: Problem with XML
Posted by koldo on Sun, 26 May 2013 13:19:56 GMT
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Hello Mirek

It is right, although it is not strictly necessary to return a bool. With try-catch a void could be enough.

Subject: Re: Problem with XML
Posted by mirek on Sun, 26 May 2013 14:28:36 GMT
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koldo wrote on Sun, 26 May 2013 09:19Hello Mirek

It is right, although it is not strictly necessary to return a bool. With try-catch a void could be enough.

I was considering this too. Anyway, perhaps it is a good idea to distinguish empty input.
