
Subject: How to access base class function in this case?

Posted by [sinpeople](#) on Sat, 31 Oct 2020 13:05:25 GMT

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Hi folks,

I am studying the binary serialization in an inheritance hierarchy. In the code below, it seems the serialization methods (both Serialize() and ToString()) of the base class is never called. Is there any way to call it?

I want the serialization of an extended class also includes its immediate user-defined base class.

Thank you so much!

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

using namespace Upp;

struct Foo {
    int     q;
    String  text;
    Vector<int> data;

    void Serialize(Stream& s)
    {
        s % q % text % data;
    }

    String ToString() const
    {
        String s;
        s << "q = " << q << ", text = \"" << text << "\", data:";
        for(int i = 0; i < data.GetCount(); i++)
            s << ' ' << data[i];
        return s;
    }

    Foo() { q = 0; }
};

struct FooExt : Foo
{
    int nMessageID;
    VectorMap<String, int> scores;

    void Serialize(Stream& s)
    {
        s % nMessageID % scores;
```

```

}

String ToString() const
{
    String s;
    s << "nMessageID = " << nMessageID;
    for(int i = 0; i < scores.GetCount(); i++)
    {
        s << scores.GetKey(i) << ' ' << scores[i];
    }

    return s;
}
FooExt() { q = 0; }
};

CONSOLE_APP_MAIN
{
    FooExt foo;
    LoadFromFile(foo, ConfigFile("data.bin"));
    Cout() << "Loaded Foo: " << foo << '\n';
    foo.text = FormatIntRoman(foo.q);
    foo.q++;
    foo.data.Add(foo.q);
    foo.nMessageID = 1001;
    foo.scores.Add("Jack", 95);
    foo.scores.Add("Joe", 100);
    StoreToFile(foo, ConfigFile("data.bin"));
    Cout() << "Saved Foo: " << foo << '\n';
}

```

Best Regards
David
