
Subject: Value and Serialize

Posted by [mubeta](#) on Tue, 03 Apr 2007 15:33:55 GMT

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Hi,

From long time ago, I am using the following VectorMap declaration for managing some data:

```
//  
VectorMap<int, Vector<Value> > MyData;  
//
```

And with the following two functions, I store a lot of this data in some database, using "Serialization":

```
//  
VectorMap<int, Vector<Value> > StringToVector(const String &s) {  
  
    StringStream ss(s);  
    VectorMap<int, Vector<Value> > m;  
    ss.SetLoading();  
    m.Serialize(ss);  
    //LoadFromString(m, s);  
    return m;  
}
```

```
String VectorToString(VectorMap<int, Vector<Value> > &v) {
```

```
    StringStream ss;  
    //ss.Create();  
    ss.SetStoring();  
    v.Serialize(ss);  
    return ss.GetResult();  
    //return StoreAsString(v);  
}  
//
```

I start to do this and compiling the application with UPP605. I give the application to some peoples, and now they have a lot of user file with data stored inside.

Now I am developing this application with UPP2007, but there is a problem: when I want to read the data stored in the file created in the past, the serialization don't recreate an correct VectorMap; the key values of the VectorMap it's correct, but not the values.

I have scanned manually the string generated with the old application, and I have compared with the string generated with new application. There is one difference: before every value of type "Value" it's preceded by the hex number 08, now in the new string of serialization there is the hex number 09.

With an hex editor I have changed some files, just modifying this number, and after this I am able

to read well also the old files.

So, after this test, I think: maybe, in the past, the type "Value" is recognized from the compiler with the number 0x08, now, in the last upp the "Value" type is recognized as number 0x09.

That mean that using a non "native" data type it's dangerous for future compatibility?

And how I can force the compiler to give the same identifier for Upp data type, for each release of Upp?

Thanks

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