
Subject: Re: Xmlize has problem with WithDeepCopy<Array<...

Posted by [nixnixnix](#) on Fri, 02 Nov 2012 00:47:20 GMT

[View Forum Message](#) <> [Reply to Message](#)

OK got it. Not sure why Xmlize is not working for WithDeepCopy <Vector <double> > but in any case the following two functions give slightly more functionality

```
template<class T> static bool XmlizeArray1D(XmlIO& xml,String sCollection,String sltem,T& ar)
{
    DUMP("XmlizeArray1D");

    int n;

    if(xml.IsStoring())
    {
        XmlIO xmla = xml.Add(sCollection);

        n = ar.GetCount();
        DUMP(n);
        xmla("Count",n);

        for(int i=0;i<n;i++)
        {
            String s = Format("%s%d",sltem,i);
            xmla(s,ar[i]);
        }
    }
    else // IsLoading
    {
        int ii = -1;
        for(int i = 0; i < xml->GetCount(); i++)
        {
            if(xml->Node(i).IsTag(sCollection))
                ii = i;
        }

        if(ii<0)
        {
            DUMP("FAILED IN XmlizeArray1D");
            return false;
        }
        XmlIO xmla = xml.At(ii);

        xmla("Count",n);

        DUMP(n);
    }
}
```

```

if(n>=0)
    ar.SetCount(n);
else
    return false;

for(int i=0;i<n;i++)
{
    String s = Format("%s%d",sItem,i);
    xmla(s,ar[i]);
}

}

return true;
}

template<class S,class T> static bool XmlizeArray2D(XmlIO& xml,String sCollection,String
Column,S& ss,T& ar)
{
    DUMP("XmlizeArray2D");

    int n1,n2;

    if(xml.IsStoring())
    {
        XmlIO xmla = xml.Add(sCollection);

        n1 = ar.GetCount();
        xmla("Columns",n1);

        for(int i=0;i<n1;i++)
        {
            String sHeader = Format("%s%f",Column,ss[i]);
            XmlIO xmlb = xmla.Add(sHeader);

            n2 = ar[i].GetCount();
            xmlb("Rows",n2);

            for(int j=0;j<n2;j++)
            {
                String label = Format("v%d-%d",i,j);

                xmlb(label,ar[i][j]);
            }
        }
    }
}

```

```

else // IsLoading
{
int ii = -1;
for(int i = 0; i < xml->GetCount(); i++)
{
if(xml->Node(i).IsTag(sCollection))
ii = i;
}

if(ii<0)
{
DUMP("FAILED IN XmlizeArray2D1");
return false;
}

XmlIO xmla = xml.At(ii);

xmla("Columns",n1);
ar.SetCount(n1);

DUMP(n1);

for(int i=0;i<n1;i++)
{
String sHeader = Format("%s%f",Column,ss[i]);

int jj = -1;
for(int j = 0; j < xmla->GetCount(); j++)
{
if(xmla->Node(j).IsTag(sHeader))
jj = j;
}

if(jj<0)
{
DUMP("FAILED IN XmlizeArray2D2");
return false;
}

XmlIO xmlb = xmla.At(jj);

xmlb("Rows",n2);
ar[i].SetCount(n2);

DUMP(n2);

for(int j=0;j<n2;j++)
{

```

```
String label = Format("v%d-%d",i,j);  
xmlb(label,ar[i][j]);  
}  
}  
}  
  
return true;  
}
```
