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Subject: Re: Xmlize has problem with WithDeepCopy<Array<...  
Posted by [nixnixnix](#) on Thu, 01 Nov 2012 21:45:51 GMT  
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Thanks. I just downloaded version 5503 but still get the same error.

MindTraveller, there really wasn't anything I could add. Every instance of an Array or Vector that I have declared with WithDeepCopy gives the same error when I try to Xmlize with something like

```
void TurbineTable::Xmlize(XmlIO& xml)
{
    DUMP("In TurbineTable::Xmlize");

    String sType = "TurbineTable";

    xml
    ("Type",sType)
    ("TI_min",m_fTlmin)
    ("TI_max",m_fTlmax) // these work
    ;

    xml
    ("Velocity",m_fV) // << this is a double array which is typedef WithDeepCopy < Vector <double> >
doubleArray
    ("AirDensity",m_fAirDensity) // << this is a double array which is typedef WithDeepCopy < Vector
<double> > doubleArray
    ;
```

As a workaround I tried the following for 1 and 2 dimensional arrays.

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

    XmlIO& xmla = xml.Add(sCollection);

    int n;

    if(xml.IsStoring())
    {
        n = ar.GetCount();
        xmla("Count",n);
    }
```

```

else // IsLoading
{
    xmla("Count",n);
    if(n>=0)
        ar.SetCount(n);
    else
        return false;
}

for(int i=0;i<n;i++)
{
    String s = Format("%s%d",sltem,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");

    XmlIO& xmla = xml.Add(sCollection);

    int n1,n2;

    if(xml.IsStoring())
    {
        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
{
    xmla("Columns",n1);
    ar.SetCount(n1);

    DUMP(n1);

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

        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;
}

```

and it appears to write good clear XML but it wont read back in. It could be that I am misusing the Add() as I have never been clear really on how the XML should work.

My XML file looks like the following:

```

<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<!DOCTYPE AlstomECOCClassA>
<AlstomECOCClassA>
  <Name>Alstom ECO 80 1.67 Class 2A</Name>
  <HubHeight value="80"/>
  <RotorDiameter value="80"/>
  <VoltageV value="690"/>
  <CapacityKW value="1670"/>
  <IsPitchControlled value="1"/>
  <LowCutIn value="3"/>
  <HighCutOut value="25"/>

```

```

<IEC_adjustment value="1"/>
<NumBlades value="3"/>
<LowTemperatureShutDown value="-30"/>
<HighTemperatureShutDown value="45"/>
<LowTemperatureUnits value="0"/>
<HighTemperatureUnits value="0"/>
<LowTemperatureRestart value="-20"/>
<HighTemperatureRestart value="30"/>
<IsVariableSpeed value="1"/>
<TiltAngleDegrees value="5"/>
<PeakOutputKW value="1670"/>
<SpeedClass value="2"/>
<TiClass value="0"/>
<SpeedMax value="8.5"/>
<TiMax value="16"/>
<Comments>This is not a warranted power curve. It is for demonstration purposes only. If you
need a warranted power curve, please contact your turbine manufacturer.</Comments>
<Power_Tables>
  <Count value="1"/>
  <Power_Table0>
    <Type>TurbineTable</Type>
    <TI_min value="0"/>
    <TI_max value="60"/>
    <Velocities>
      <Count value="26"/>
      <Velocity0 value="0"/>
      <Velocity1 value="1"/>
      <Velocity2 value="2"/>
      <Velocity3 value="3"/>
      <Velocity4 value="4"/>
      <Velocity5 value="5"/>
      <Velocity6 value="6"/>
      <Velocity7 value="7"/>
      <Velocity8 value="8"/>
      <Velocity9 value="9"/>
      <Velocity10 value="10"/>
      <Velocity11 value="11"/>
      <Velocity12 value="12"/>
      <Velocity13 value="13"/>
      <Velocity14 value="14"/>
      <Velocity15 value="15"/>
      <Velocity16 value="16"/>
      <Velocity17 value="17"/>
      <Velocity18 value="18"/>
      <Velocity19 value="19"/>
      <Velocity20 value="20"/>
      <Velocity21 value="21"/>
      <Velocity22 value="22"/>
    
```

```

<Velocity23 value="23"/>
<Velocity24 value="24"/>
<Velocity25 value="25"/>
</Velocities>
<AirDensities>
<Count value="6"/>
<Rho0 value="1"/>
<Rho1 value="1.05"/>
<Rho2 value="1.1"/>
<Rho3 value="1.15"/>
<Rho4 value="1.2"/>
<Rho5 value="1.225"/>
</AirDensities>
<Values>
<Columns value="6"/>
<Rho1.000000>
<Rows value="26"/>
<v0-0 value="0"/>
<v0-1 value="0"/>
<v0-2 value="0"/>
<v0-3 value="8"/>
<v0-4 value="53"/>
<v0-5 value="129"/>
<v0-6 value="246"/>
<v0-7 value="409"/>
<v0-8 value="626"/>
<v0-9 value="904"/>
<v0-10 value="1231"/>
<v0-11 value="1522"/>
<v0-12 value="1637"/>
<v0-13 value="1662"/>
<v0-14 value="1670"/>
<v0-15 value="1670"/>
<v0-16 value="1665"/>
<v0-17 value="1614"/>
<v0-18 value="1517"/>
<v0-19 value="1409"/>
<v0-20 value="1300"/>
<v0-21 value="1191"/>
<v0-22 value="1083"/>
<v0-23 value="974"/>
<v0-24 value="867"/>
<v0-25 value="758"/>
</Rho1.000000>
<Rho1.050000>
<Rows value="26"/>
<v1-0 value="0"/>
<v1-1 value="0"/>

```

```

<v1-2 value="0"/>
<v1-3 value="8"/>
<v1-4 value="53"/>
<v1-5 value="129"/>
<v1-6 value="246"/>
<v1-7 value="409"/>
<v1-8 value="626"/>
<v1-9 value="904"/>
<v1-10 value="1231"/>
<v1-11 value="1522"/>
<v1-12 value="1637"/>
<v1-13 value="1662"/>
<v1-14 value="1670"/>
<v1-15 value="1670"/>
<v1-16 value="1665"/>
<v1-17 value="1614"/>
<v1-18 value="1517"/>
<v1-19 value="1409"/>
<v1-20 value="1300"/>
<v1-21 value="1191"/>
<v1-22 value="1083"/>
<v1-23 value="974"/>
<v1-24 value="867"/>
<v1-25 value="758"/>
</Rho1.050000>
<Rho1.100000>
<Rows value="26"/>
<v2-0 value="0"/>
<v2-1 value="0"/>
<v2-2 value="0"/>
<v2-3 value="7"/>
<v2-4 value="49"/>
<v2-5 value="123"/>
<v2-6 value="233"/>
<v2-7 value="390"/>
<v2-8 value="597"/>
<v2-9 value="864"/>
<v2-10 value="1182"/>
<v2-11 value="1480"/>
<v2-12 value="1626"/>
<v2-13 value="1658"/>
<v2-14 value="1670"/>
<v2-15 value="1670"/>
<v2-16 value="1665"/>
<v2-17 value="1614"/>
<v2-18 value="1517"/>
<v2-19 value="1409"/>
<v2-20 value="1300"/>

```

```

<v2-21 value="1191"/>
<v2-22 value="1083"/>
<v2-23 value="974"/>
<v2-24 value="867"/>
<v2-25 value="758"/>
</Rho1.100000>
<Rho1.150000>
  <Rows value="26"/>
  <v3-0 value="0"/>
  <v3-1 value="0"/>
  <v3-2 value="0"/>
  <v3-3 value="8"/>
  <v3-4 value="53"/>
  <v3-5 value="129"/>
  <v3-6 value="246"/>
  <v3-7 value="409"/>
  <v3-8 value="626"/>
  <v3-9 value="904"/>
  <v3-10 value="1231"/>
  <v3-11 value="1522"/>
  <v3-12 value="1637"/>
  <v3-13 value="1662"/>
  <v3-14 value="1670"/>
  <v3-15 value="1670"/>
  <v3-16 value="1665"/>
  <v3-17 value="1614"/>
  <v3-18 value="1517"/>
  <v3-19 value="1409"/>
  <v3-20 value="1300"/>
  <v3-21 value="1191"/>
  <v3-22 value="1083"/>
  <v3-23 value="974"/>
  <v3-24 value="867"/>
  <v3-25 value="758"/>
</Rho1.150000>
<Rho1.200000>
  <Rows value="26"/>
  <v4-0 value="0"/>
  <v4-1 value="0"/>
  <v4-2 value="0"/>
  <v4-3 value="9"/>
  <v4-4 value="56"/>
  <v4-5 value="136"/>
  <v4-6 value="258"/>
  <v4-7 value="428"/>
  <v4-8 value="654"/>
  <v4-9 value="944"/>
  <v4-10 value="1277"/>

```

```

<v4-11 value="1558"/>
<v4-12 value="1643"/>
<v4-13 value="1663"/>
<v4-14 value="1670"/>
<v4-15 value="1670"/>
<v4-16 value="1658"/>
<v4-17 value="1595"/>
<v4-18 value="1488"/>
<v4-19 value="1380"/>
<v4-20 value="1269"/>
<v4-21 value="1159"/>
<v4-22 value="1050"/>
<v4-23 value="939"/>
<v4-24 value="829"/>
<v4-25 value="720"/>
</Rho1.200000>
<Rho1.225000>
<Rows value="26"/>
<v5-0 value="0"/>
<v5-1 value="0"/>
<v5-2 value="0"/>
<v5-3 value="9"/>
<v5-4 value="58"/>
<v5-5 value="139"/>
<v5-6 value="263"/>
<v5-7 value="437"/>
<v5-8 value="669"/>
<v5-9 value="964"/>
<v5-10 value="1300"/>
<v5-11 value="1580"/>
<v5-12 value="1647"/>
<v5-13 value="1666"/>
<v5-14 value="1670"/>
<v5-15 value="1670"/>
<v5-16 value="1655"/>
<v5-17 value="1583"/>
<v5-18 value="1476"/>
<v5-19 value="1365"/>
<v5-20 value="1254"/>
<v5-21 value="1144"/>
<v5-22 value="1033"/>
<v5-23 value="922"/>
<v5-24 value="812"/>
<v5-25 value="701"/>
</Rho1.225000>
</Values>
</Power_Table0>
</Power_Tables>

```

```

<Thrust_Table>
<Type>TurbineTable</Type>
<TI_min value="0"/>
<TI_max value="60"/>
<Velocities>
<Count value="26"/>
<Velocity0 value="0"/>
<Velocity1 value="1"/>
<Velocity2 value="2"/>
<Velocity3 value="3"/>
<Velocity4 value="4"/>
<Velocity5 value="5"/>
<Velocity6 value="6"/>
<Velocity7 value="7"/>
<Velocity8 value="8"/>
<Velocity9 value="9"/>
<Velocity10 value="10"/>
<Velocity11 value="11"/>
<Velocity12 value="12"/>
<Velocity13 value="13"/>
<Velocity14 value="14"/>
<Velocity15 value="15"/>
<Velocity16 value="16"/>
<Velocity17 value="17"/>
<Velocity18 value="18"/>
<Velocity19 value="19"/>
<Velocity20 value="20"/>
<Velocity21 value="21"/>
<Velocity22 value="22"/>
<Velocity23 value="23"/>
<Velocity24 value="24"/>
<Velocity25 value="25"/>
</Velocities>
<AirDensities>
<Count value="6"/>
<Rho0 value="1"/>
<Rho1 value="1.05"/>
<Rho2 value="1.1"/>
<Rho3 value="1.15"/>
<Rho4 value="1.2"/>
<Rho5 value="1.225"/>
</AirDensities>
<Values>
<Columns value="6"/>
<Rho1.000000>
<Rows value="26"/>
<v0-0 value="0"/>
<v0-1 value="0"/>

```

```

<v0-2 value="0"/>
<v0-3 value="1.02"/>
<v0-4 value="0.85"/>
<v0-5 value="0.74"/>
<v0-6 value="0.75"/>
<v0-7 value="0.76"/>
<v0-8 value="0.76"/>
<v0-9 value="0.75"/>
<v0-10 value="0.69"/>
<v0-11 value="0.64"/>
<v0-12 value="0.46"/>
<v0-13 value="0.35"/>
<v0-14 value="0.27"/>
<v0-15 value="0.22"/>
<v0-16 value="0.18"/>
<v0-17 value="0.15"/>
<v0-18 value="0.12"/>
<v0-19 value="0.09"/>
<v0-20 value="0.07"/>
<v0-21 value="0.06"/>
<v0-22 value="0.05"/>
<v0-23 value="0.04"/>
<v0-24 value="0.03"/>
<v0-25 value="0.02"/>
</Rho1.000000>
<Rho1.050000>
<Rows value="26"/>
<v1-0 value="0"/>
<v1-1 value="0"/>
<v1-2 value="0"/>
<v1-3 value="1.02"/>
<v1-4 value="0.85"/>
<v1-5 value="0.74"/>
<v1-6 value="0.75"/>
<v1-7 value="0.76"/>
<v1-8 value="0.76"/>
<v1-9 value="0.75"/>
<v1-10 value="0.69"/>
<v1-11 value="0.64"/>
<v1-12 value="0.46"/>
<v1-13 value="0.35"/>
<v1-14 value="0.27"/>
<v1-15 value="0.22"/>
<v1-16 value="0.18"/>
<v1-17 value="0.15"/>
<v1-18 value="0.12"/>
<v1-19 value="0.09"/>
<v1-20 value="0.07"/>

```

```

<v1-21 value="0.06"/>
<v1-22 value="0.05"/>
<v1-23 value="0.04"/>
<v1-24 value="0.03"/>
<v1-25 value="0.02"/>
</Rho1.050000>
<Rho1.100000>
  <Rows value="26"/>
  <v2-0 value="0"/>
  <v2-1 value="0"/>
  <v2-2 value="0"/>
  <v2-3 value="1.02"/>
  <v2-4 value="0.85"/>
  <v2-5 value="0.74"/>
  <v2-6 value="0.75"/>
  <v2-7 value="0.76"/>
  <v2-8 value="0.76"/>
  <v2-9 value="0.75"/>
  <v2-10 value="0.69"/>
  <v2-11 value="0.64"/>
  <v2-12 value="0.46"/>
  <v2-13 value="0.35"/>
  <v2-14 value="0.27"/>
  <v2-15 value="0.22"/>
  <v2-16 value="0.18"/>
  <v2-17 value="0.15"/>
  <v2-18 value="0.12"/>
  <v2-19 value="0.09"/>
  <v2-20 value="0.07"/>
  <v2-21 value="0.06"/>
  <v2-22 value="0.05"/>
  <v2-23 value="0.04"/>
  <v2-24 value="0.03"/>
  <v2-25 value="0.02"/>
</Rho1.100000>
<Rho1.150000>
  <Rows value="26"/>
  <v3-0 value="0"/>
  <v3-1 value="0"/>
  <v3-2 value="0"/>
  <v3-3 value="1.02"/>
  <v3-4 value="0.85"/>
  <v3-5 value="0.74"/>
  <v3-6 value="0.75"/>
  <v3-7 value="0.76"/>
  <v3-8 value="0.76"/>
  <v3-9 value="0.75"/>
  <v3-10 value="0.69"/>

```

```

<v3-11 value="0.64"/>
<v3-12 value="0.46"/>
<v3-13 value="0.35"/>
<v3-14 value="0.27"/>
<v3-15 value="0.22"/>
<v3-16 value="0.18"/>
<v3-17 value="0.15"/>
<v3-18 value="0.12"/>
<v3-19 value="0.09"/>
<v3-20 value="0.07"/>
<v3-21 value="0.06"/>
<v3-22 value="0.05"/>
<v3-23 value="0.04"/>
<v3-24 value="0.03"/>
<v3-25 value="0.02"/>
</Rho1.150000>
<Rho1.200000>
<Rows value="26"/>
<v4-0 value="0"/>
<v4-1 value="0"/>
<v4-2 value="0"/>
<v4-3 value="1.02"/>
<v4-4 value="0.85"/>
<v4-5 value="0.75"/>
<v4-6 value="0.76"/>
<v4-7 value="0.76"/>
<v4-8 value="0.77"/>
<v4-9 value="0.75"/>
<v4-10 value="0.69"/>
<v4-11 value="0.6"/>
<v4-12 value="0.44"/>
<v4-13 value="0.34"/>
<v4-14 value="0.26"/>
<v4-15 value="0.21"/>
<v4-16 value="0.17"/>
<v4-17 value="0.14"/>
<v4-18 value="0.11"/>
<v4-19 value="0.09"/>
<v4-20 value="0.07"/>
<v4-21 value="0.06"/>
<v4-22 value="0.04"/>
<v4-23 value="0.04"/>
<v4-24 value="0.03"/>
<v4-25 value="0.02"/>
</Rho1.200000>
<Rho1.225000>
<Rows value="26"/>
<v5-0 value="0"/>

```

```

<v5-1 value="0"/>
<v5-2 value="0"/>
<v5-3 value="1.02"/>
<v5-4 value="0.85"/>
<v5-5 value="0.76"/>
<v5-6 value="0.76"/>
<v5-7 value="0.77"/>
<v5-8 value="0.77"/>
<v5-9 value="0.75"/>
<v5-10 value="0.69"/>
<v5-11 value="0.59"/>
<v5-12 value="0.44"/>
<v5-13 value="0.33"/>
<v5-14 value="0.26"/>
<v5-15 value="0.21"/>
<v5-16 value="0.17"/>
<v5-17 value="0.14"/>
<v5-18 value="0.11"/>
<v5-19 value="0.08"/>
<v5-20 value="0.07"/>
<v5-21 value="0.05"/>
<v5-22 value="0.04"/>
<v5-23 value="0.03"/>
<v5-24 value="0.03"/>
<v5-25 value="0.02"/>
</Rho1.225000>
</Values>
</Thrust_Table>
<RPM_Table>
<Type>TurbineTable</Type>
<TI_min value="0"/>
<TI_max value="60"/>
<Velocities>
<Count value="26"/>
<Velocity0 value="0"/>
<Velocity1 value="1"/>
<Velocity2 value="2"/>
<Velocity3 value="3"/>
<Velocity4 value="4"/>
<Velocity5 value="5"/>
<Velocity6 value="6"/>
<Velocity7 value="7"/>
<Velocity8 value="8"/>
<Velocity9 value="9"/>
<Velocity10 value="10"/>
<Velocity11 value="11"/>
<Velocity12 value="12"/>
<Velocity13 value="13"/>

```

```

<Velocity14 value="14"/>
<Velocity15 value="15"/>
<Velocity16 value="16"/>
<Velocity17 value="17"/>
<Velocity18 value="18"/>
<Velocity19 value="19"/>
<Velocity20 value="20"/>
<Velocity21 value="21"/>
<Velocity22 value="22"/>
<Velocity23 value="23"/>
<Velocity24 value="24"/>
<Velocity25 value="25"/>
</Velocities>
<AirDensities>
  <Count value="1"/>
  <Rho0 value="1.225"/>
</AirDensities>
<Values>
  <Columns value="1"/>
  <Rho1.225000>
    <Rows value="26"/>
    <v0-0 value="0"/>
    <v0-1 value="0"/>
    <v0-2 value="0"/>
    <v0-3 value="11"/>
    <v0-4 value="12"/>
    <v0-5 value="13"/>
    <v0-6 value="14"/>
    <v0-7 value="15"/>
    <v0-8 value="16"/>
    <v0-9 value="17"/>
    <v0-10 value="18"/>
    <v0-11 value="19"/>
    <v0-12 value="20"/>
    <v0-13 value="20.16"/>
    <v0-14 value="20.32"/>
    <v0-15 value="20.48"/>
    <v0-16 value="20.64"/>
    <v0-17 value="20.8"/>
    <v0-18 value="20.96"/>
    <v0-19 value="21.12"/>
    <v0-20 value="21.28"/>
    <v0-21 value="21.44"/>
    <v0-22 value="21.6"/>
    <v0-23 value="21.76"/>
    <v0-24 value="21.92"/>
    <v0-25 value="22"/>
  </Rho1.225000>

```

```

</Values>
</RPM_Table>
<TotalCost value="2000000"/>
<FoundationCost value="100000"/>
<PeriodicCosts>
  <Count value="2"/>
  <PeriodicCost0>
    <Type>PeriodicCost</Type>
    <Component>Drive Train</Component>
    <Cost value="300000"/>
    <PeriodYears value="7"/>
    <CostVariable value="0"/>
    <PeriodVariable value="0"/>
    <IsVariablePeriod value="0"/>
    <IsVariableCost value="0"/>
    <CostExponent value="1"/>
    <PeriodExponent value="1"/>
    <CostFactor value="1"/>
    <PeriodFactor value="1"/>
  </PeriodicCost0>
  <PeriodicCost1>
    <Type>PeriodicCost</Type>
    <Component>Blades</Component>
    <Cost value="200000"/>
    <PeriodYears value="15"/>
    <CostVariable value="0"/>
    <PeriodVariable value="0"/>
    <IsVariablePeriod value="0"/>
    <IsVariableCost value="0"/>
    <CostExponent value="1"/>
    <PeriodExponent value="1"/>
    <CostFactor value="1"/>
    <PeriodFactor value="1"/>
  </PeriodicCost1>
</PeriodicCosts>
<TotalNoise value="100"/>
<TonalNoise value="100"/>
<Noise63hz value="0"/>
<Noise125hz value="0"/>
<Noise250hz value="0"/>
<Noise500hz value="0"/>
<Noise1000hz value="0"/>
<Noise2000hz value="0"/>
<Noise4000hz value="0"/>
<Noise8000hz value="0"/>
</AlstomECOClassA>

```

Which appears exactly as I would want it but for some reason it will not Xmlize back in

It would be good if XmlIO gave more errors when it can't find something. When I debug, it appears to find the Columns variable "...s=6??..." but instead sets my n1 variable in the 2D array to

Any suggestions welcome.

Nick

Update:

It is the Add() function that is causing me problems. When I use

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

    // XmlIO& xmla = xml.Add(sCollection);

    XmlIO& xmla = xml;

    int n;

    if(xml.IsStoring())
    {
        n = ar.GetCount();
        DUMP(n);
        xmla("Count",n);
    }
    else // IsLoading
    {
        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",sltem,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");

// XmlIO& xmla = xml.Add(sCollection);
    XmlIO& xmla = xml;

    int n1,n2;

    if(xml.IsStoring())
    {
        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);
            XmlIO& xmlb = xml;

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

        DUMP(n1);

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

```

```

XmlIO& xmlb = xml;

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;
}

```

instead then it reads back in fine but this means that each object can only contain one 1D array or vector and 1 2D array or vector as the Count variables will overwrite each other. I need to use the Add(sCollection) in the original functions in order to make them properly useful. Is there any alternative that would achieve the same thing please?