

VisIt - Bug # 1311: vts files losing some boundaries.

Status:	Resolved	Priority:	High
Author:	Eric Brugger	Category:	
Created:	01/15/2013	Assigned to:	Brad Whitlock
Updated:	01/22/2013	Due date:	
Likelihood:	3 - Occasional		
Severity:	2 - Minor Irritation		
Found in Version:	2.6.0		
OS:	All		
Support Group:	Any		
Subject:	vts files losing some boundaries.		
Description:	<p>Jean Favre reported that he had a pvts file that wasn't being read properly with VisIt, with some parts of the mesh not showing up. He found out that reading individual files displayed the same behavior. He also found that the geometry was being eliminated in the facelist filter. He gave me a pvts file that demonstrated the behavior. I looked at the file and noticed that the "WholeExtent" and "Extent" of the piece was say "0 20 0 20 40 60". When I changed it to "0 20 0 20 0 20" it worked fine. So there is something in the facelist filter that is causing the problem with those extents.</p> <p>Here is a reproducer with one of our sample data sets.</p> <p>data/vtk_xml_test_data/curv3d.vts</p> <p>where the extents are changed from "0 30 0 40 0 30" to "0 30 0 40 30 60"</p>		

History

01/18/2013 02:04 pm - Eric Brugger

- Status changed from New to Pending
- Assigned to set to Brad Whitlock

01/22/2013 05:07 pm - Brad Whitlock

- Status changed from Pending to Resolved
- % Done changed from 0 to 100

I changed the header of the VTS file to what's listed below. I found that setting the volume of interest for structured grids in the facelist filter did not take into account that extents might begin at values other than 0. Fixed.

```
<code><pre>
<VTKFile type="StructuredGrid" version="0.1" byte_order="LittleEndian" compressor="vtkZLibDataCompressor">
  <StructuredGrid WholeExtent="0 30 0 40 30 60">
    <Piece Extent="0 30 0 40 30 60">
</pre></code>
```