Vertex Geometry Modifier

Overview

The VertexGeometryModifier, in conjunction with a VertexAccessor, helps to modify VertexGeometry objects by the means of the setters offered by the class interface. The interface offers also getters which are helpful to retrieve the values of the vertex elements from a given vertex buffer.

Example

The example below shows how to change the position values for the vertices from a vertex buffer of a given mesh.

```
VertexGeometry* vertexGeom;
bool isMutable = m_mesh3->GetVertexBuffer()->GetVertexGeometry()->GetVertexArrayResc
// Get the vertex geometry of the mesh
if (isMutable) {
    vertexGeom = m_mesh3->GetVertexBuffer()->GetVertexGeometry();
}
else {
    DiagnosticPlatform::ConsoleOut("VertexGeometryData not mutable");
    break;
}
 // The vertex accessor will be used by the vertex geometry modifier to access the v
VertexAccessor accessor(*vertexGeom);

// Create a vertex geometry modifier specifying as usage the type of vertex attribut
// which will be changed
VertexGeometryModifier modifier(*vertexGeom, VertexGeometry::Position, 0);
Float vertexData[3];
for(Int i = 0; i<8; i++) {
    if(s_inflate) {
    // Retrieve the position data of the vertex "i" in the vertexData array
    modifier.GetVertexElement(accessor.GetVertex(i), vertexData, 3);

    // Alter the data and set it back
    modifier.SetVertexElement(accessor.GetMutableVertex(i), vertexData[0]*1.3F, vert
    }
    else {
        // Set the position of the vertex with data get from an array (Float c_posit
        modifier.SetVertexElement(accessor.GetMutableVertex(i), c_positionData[i], 3
    }
}
```

```
            // Update the vertex buffer on the mesh
            m_mesh3->GetVertexBuffer()->Update(0, m_mesh3->GetVertexBuffer()->GetVertexGeometry(
```

Revision #5
Created 2023-02-21 06:24:17 UTC by Tsuyoshi.Kato
Updated 2024-07-31 23:20:13 UTC by Tsuyoshi.Kato