

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