

ParaView error

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1 Method

I did the following protocol with four shapes: cylinder, cone, box and sphere. In the protocol below, I use a cylinder. When saving the file I used both binary (for cone and sphere) and Ascii mode (for cylinder and box), although the error is independent of saving mode.

1.1 Command line: starting ParaView

From the Windows command line I did:

```
paraView.exe
```

1.2 ParaView: creating mesh

In paraView I did the following steps:

- From the menu bar, select 'Source | Cylinder' to create a cylinder
- In the bar on the left, click Apply to view the cylinder
- View screenshot 'before.png'. I did rotate the cylinder a bit and chose 'Surface With Edges'
- 'File | Save data', save file as cylinder.stl, choose File type 'Ascii'
- close paraView

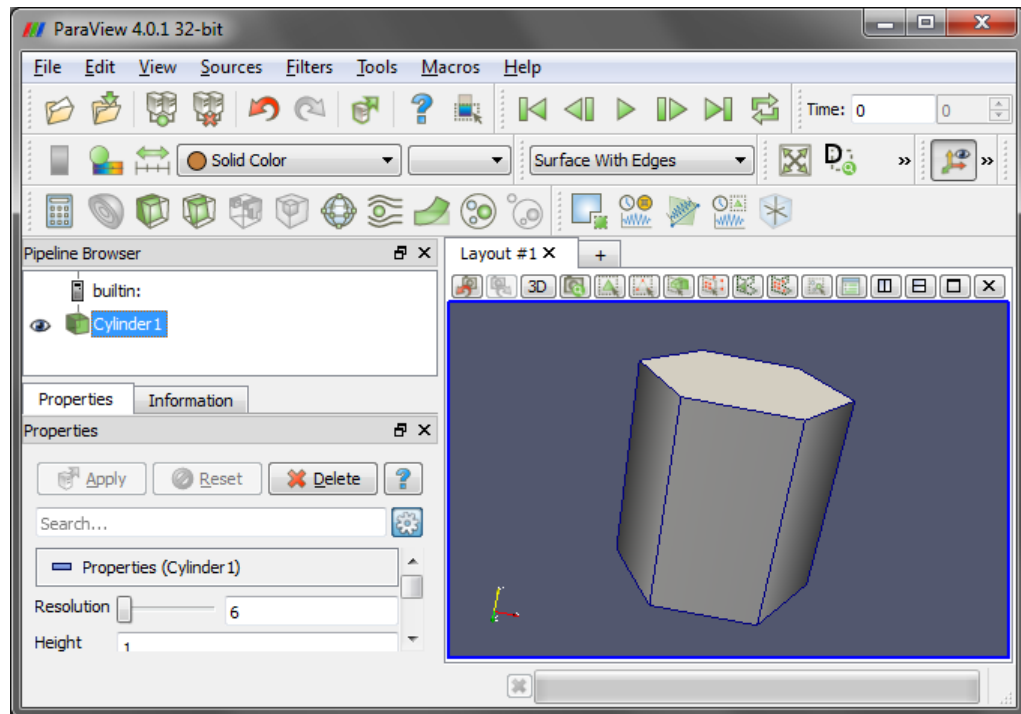
1.3 Command line: viewing mesh

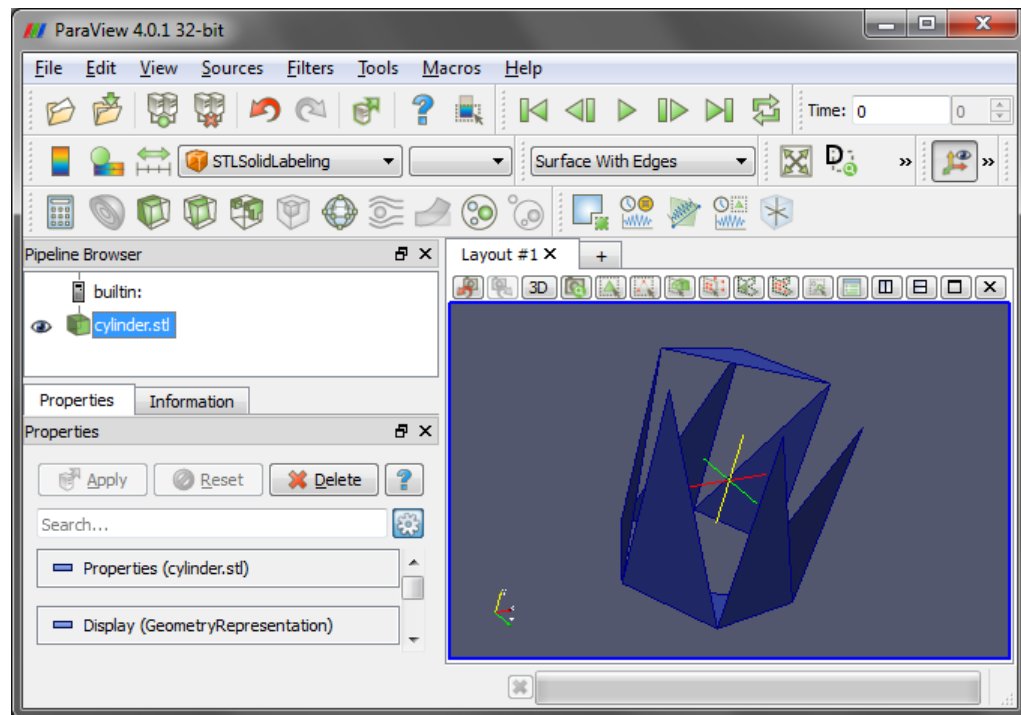
From the Windows command line I did:

```
paraView.exe cylinder.stl
```

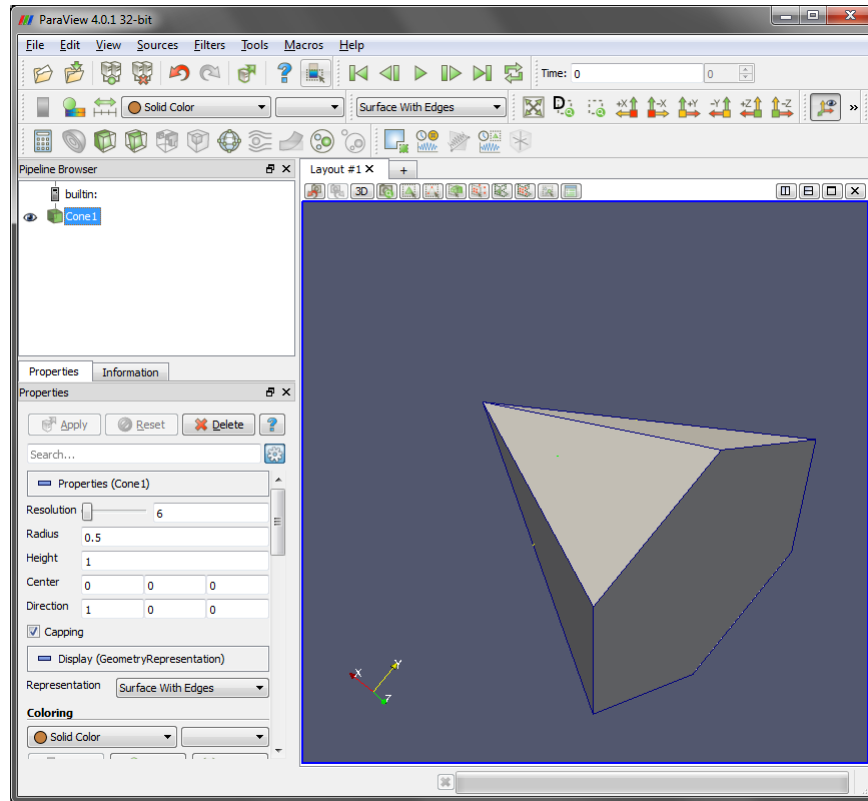
2 Results

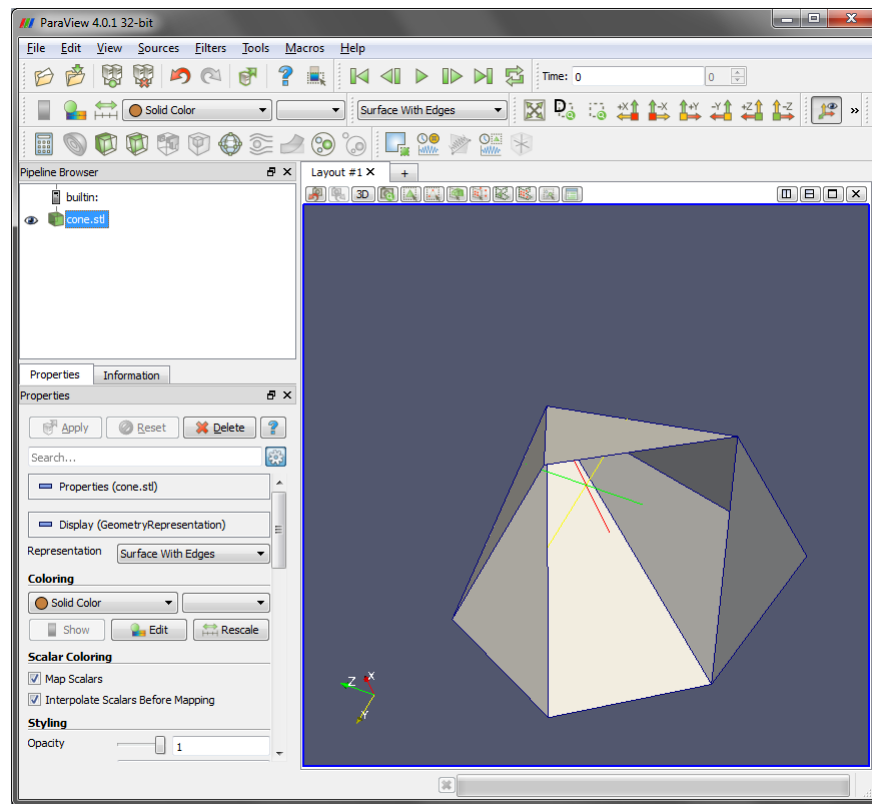
2.1 Cylinder (ASCII)



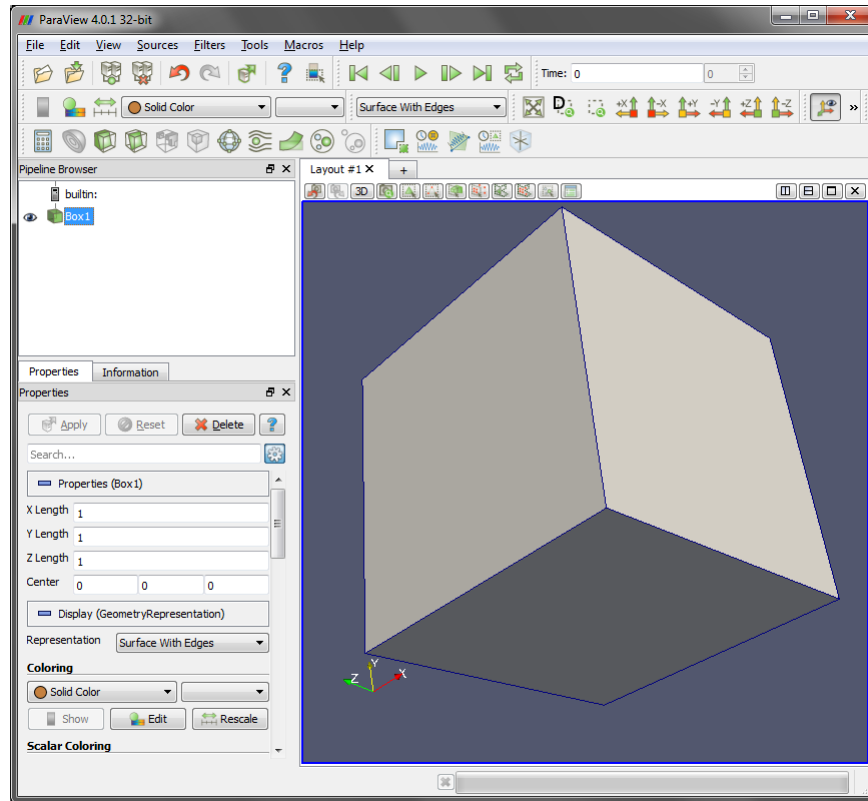


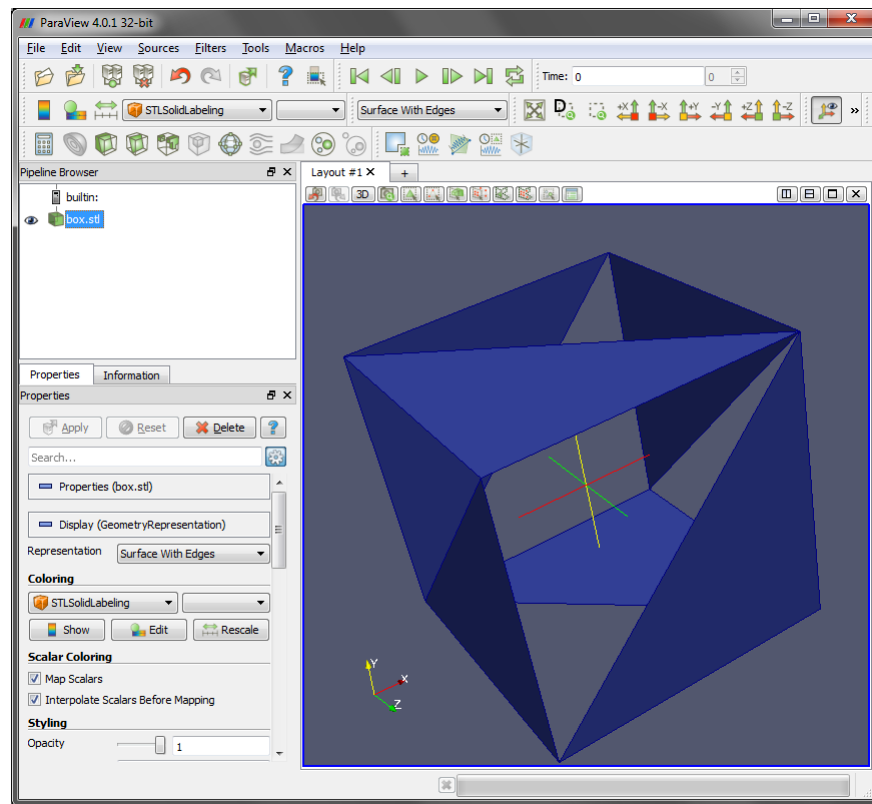
2.2 Cone (binary)



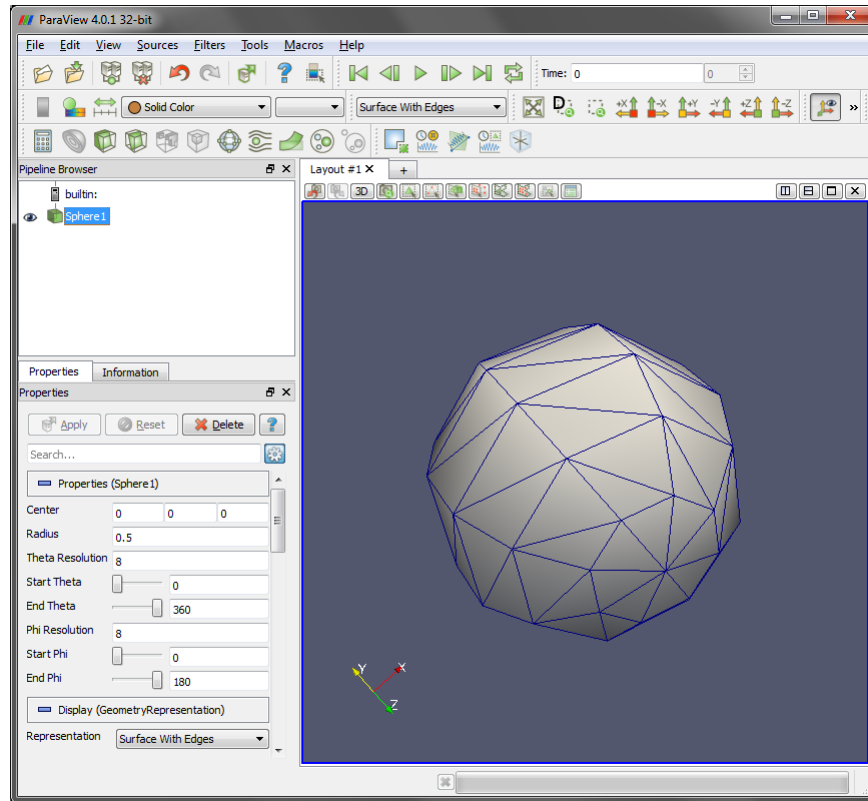


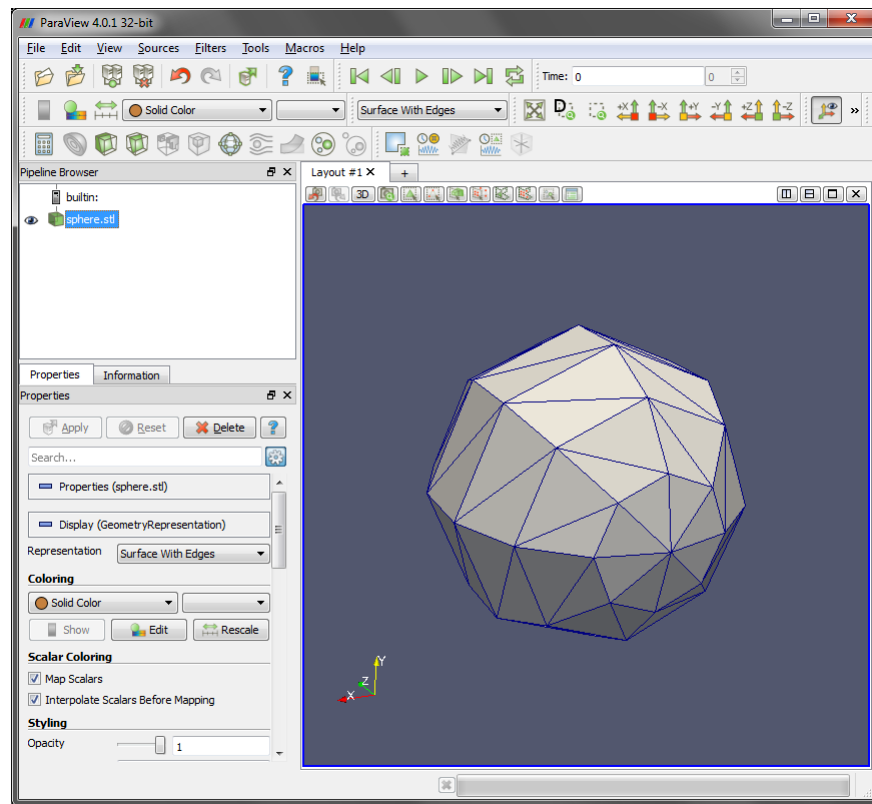
2.3 Box (ASCII)





2.4 Sphere (binary)





3 Conclusion

In creating, saving and loading a cylinder, cone and cube, something unexpected happens in their mesh. The sphere does retain its correct mesh.