Subject: Re: DXF and other CAD file formats
Posted by Dick Jackson on Tue, 04 Dec 2001 17:37:13 GMT

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"Georg Wiora" <georg.wiora@DaimlerChrysler.com> wrote in message
news:1103_1007453886@rtulmrb142...

> Thank you Rick! I tried it, but it did not work. I got a hint
> from RSI that the polyline feature is not implemented in
> IDLffDXF yet.
> There seems to be another problem with IDLffDXF: The point
> coordinates I supplied to the object are clearly 3
> dimensional, but the object displayed with the XDXF procedure
> is flat!
>
> So there is either a lack of documentation for the IDLffDXF
> object or a lack of implementation :-(

Looking a little deeper, it really is ignoring whatever you put as the
connectivity. I did this after running your Write_DXF_Lines:

```
IDL> toView = Get_DXF_Objects('test.dxf')
IDL> o=toview->get()
IDL> xobjview,o
```

It looks like a flat polyline shaped like this:] :-)
But this is what's surprising...

```
IDL> o->getproperty,polylines=poly
IDL> print,poly
         5        0        1        2        3        4
```

... so it has five vertices, four segments, and...

```
IDL> o->getproperty,data=data
IDL> print,data
     0.00000000      0.00000000      0.00000000
     1.0000000       0.00000000      0.00000000
     1.0000000       1.0000000       0.00000000
     1.0000000       1.0000000       0.00000000
     0.00000000      1.0000000       0.00000000
```

The five points are there, but they're all flattened to Z=0. Now I'm not a
fluent reader of DXF, but looking into the DXF file, it looks like there's
something called an AcDb2dVertex, here's a sample:

```
VERTEX
 5
```

```
 29
100
AcDbEntity
  8
0
100
AcDbVertex
100
AcDb2dVertex
 10
0.0
 20
1.0
 30
1.0
  0
```

It looks like it *should* be the point [0,1,1] (that's XYZ at the end), but
it ends up treated as [0,1,0] when read in. I'd guess this is where
PutEntity is making a mistake.

Sorry, this probably doesn't help a lot, but it's curious.

Cheers,
--
-Dick

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