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Subject: Re: Shapefile Woes

Posted by [David Fanning](#) on Thu, 06 Oct 2011 16:52:44 GMT

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David Fanning writes:

> If I use the very lowest resolution shape file in the  
> distribution (gsshsh\_i\_L1.shp), then I can draw the  
> shapes correctly and IDL has no problems. If I use  
> any other resolution file (e.g., gsshsh\_i\_L1.shp), then  
> the shapes get drawn in the window, but IDL seems to go  
> into an infinite loop after drawing the shapes. Several  
> minutes pass before IDL crashes.  
>  
> Has anyone else experienced problems with these GSHHS  
> shapefiles?

OK, something is seriously wrong here, I think. :-)

My tests are with the gsshsh\_i\_L1.shp file, an intermediate resolution file. The Draw Shapes file has loop in which each polygon shape in the file is rendered, and then it destroys the shapefile object it was using (IDLffShape), and then it destroys the entities from the shapefile (these are pointers), using Heap\_Free. There are 33441 individual entities (polygons) in this file.

```
IDL Print, N_Elements(*entities)
```

```
33441
```

```
IDL> Heap_Free, entities
```

I have timed the process in IDL 7.2 and in IDL 8.1.  
Here are the numbers:

IDL 7.2

```
loop: 0.177 seconds
```

```
destroy object: 0 seconds
```

```
destroy entities: 63.852 seconds
```

IDL 8.1

```
loop: 0.193 seconds
```

```
destroy object: 0 seconds
```

```
destroy entities: 90.604 seconds
```

That is a LONG time to be freeing up pointers!

Interestingly, in several trials in IDL 8.1 the freeing of the entities took from a minimum of 65 seconds to a maximum of 102 seconds. The recorded time was from the first trial.

Does this seem slow to you, or reasonable?

Cheers,

David

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David Fanning, Ph.D.

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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