Subject: sec : U Re: Writing to a specific line of a BIP or BIL file?
Posted by Andrew Cool on Fri, 20 Dec 2002 02:10:12 GMT
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Jonathan Greenberg wrote:
>
> (thanks Andrew for your answer to my ASCII file question)
>
> I now want to know, using IDL and/or ENVI function, how do I write data to a
> specific LINE of a BIP or BIL file? Its easy to read it (envi_get_slice),
> but not easy to write that slice. The brute force is to load the entire
> image into memory, assign that specific line the new values, and then
> rewrite the entire image back to disk. This is EXTREMELY slow. Even using
> ENVI's spectral tiling routines (which at least minimize the memory used,
> and allow me to know what line I'm on), I still have to parse an entire BIP
> or BIL file and rewrite it, when all I want to do is write to a specific
> line and leave the rest of them as is. Anyone have any suggestions for how
> to do this?
>
> --j

Hi Jonathon,

 Looks like the rest of the World's gone to sleep, so I'll hazard a
guess.

 Firstly though, I don't use ENVI, and hadn't even heard of BIP/BIL
files
 until now... ;-)

 But I gather that they're bitmap image files from ArcView.

 What using ASSOC? ASSOC reads records as defined by you directly from
 the file. In the code below, c:\image.dat was crated with :-

```
loadct,5
image = dist(400,400)
openw,lun,'c:\image.dat',/get
writeu,lun,image
     free_lun,lun
```

 Now you can read back in any line or block of lines using ASSOC, and
change
 it too! The ASSOC variable is *not* held in memory, but read from the
disk
 every time it is referenced.

PRO assoc_test

```
  loadct,5
  OpenU,lun,'c:\image.dat',/get
  line = ASSOC(lun,bytarr(400))
  print,line(199)
  line(199) = BYTARR(400)
  print,'========================================='
  print,line(199)
  Free_lun,lun
END
```

And now you can independently read in image.dat and confirm the change.
Hardest part is defining the structure and any offset peculiar to your
file.

I hope I'm not woofing at the wrong piece of bark here...

Merry Xmas,

Andrew