
Subject: Re: Reading PCI files in ENVI

Posted by [Liam Gumley](#) on Tue, 15 Jun 1999 07:00:00 GMT

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Jeff Nettles wrote:

> Does anybody know of a way to open and read a PCI (*.pix) file in ENVI
> using (non-interactive) batch routines? I know you can open them from
> the ENVI menu, but we want to set up automatic routines to do image
> processing at night while we're not here. Is this even possible? If i
> use the ENVI_OPEN_FILE routine i immediately get the edit header
> dialogue.

I don't have an IDL reader for PCI image data files, but if I wanted to
write one, I guess I'd start with the "PCIDSK Database Reference",
available at
http://www.pci.on.ca/dev_corner/index.html

Cheers,
Liam.

--

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Subject: Re: Reading PCI files in ENVI

Posted by [Peter Mason](#) on Wed, 16 Jun 1999 07:00:00 GMT

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Jeff Nettles <jnettlles@csc.noaa.gov> wrote:

> Does anybody know of a way to open and read a PCI (*.pix) file in ENVI
> using (non-interactive) batch routines? I know you can open them from
> the ENVI menu, but we want to set up automatic routines to do image
> processing at night while we're not here. Is this even possible? If
> i use the ENVI_OPEN_FILE routine i immediately get the edit header
> dialogue.
>
> Any help is welcome.

I'll take you on your word with that last sentence, Jeff :-). I have
neither used ENVI in batch mode nor had any truck with PCI files, but I
gather that an ENVI batch command script is essentially an IDL program
that calls ENVI support routines, and so something like the following
should work. (?)

```
;Open it (with filename_string holding the file's path+name)
ENVI_OPEN_DATA_FILE,filename_string,/PCI,R_FID=fid
```

```
;Find out how big it is  
ENVI_FILE_QUERY,fid,ns=ns,nl=nl,nb=nb,data_type=dt
```

```
;Make an array for it  
img=MAKE_ARRAY(ns,nl,nb,TYPE=dt,/NOZERO)
```

```
;Read all bands  
FOR i=0L,nb-1L do img[0,0,i]=ENVI_GET_DATA(fid,POS=i)
```

Perhaps more to the point, it appears that once you have a FID from ENVI_OPEN_DATA_FILE it's pretty much business as usual. e.g., You should be able to do spatial subsetting in the read using a DIMS array, and so on.

Peter Mason

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