
Subject: Re: index arrays of structures

Posted by [Vince Hradil](#) on Sun, 16 Mar 2008 02:31:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Mar 15, 4:07 pm, Vince Hradil <hrad...@yahoo.com> wrote:

> On Mar 15, 3:53 pm, Raghu <raghuram.narasim...@gmail.com> wrote:

>

>> Hi,

>

>> With reference to my recent posting (IDL batch indexing), i understood

>> that i could structures. However, i haven't been able to figure out

>> one step.

>

>> Here is my code as of now:

>> ; I want to search for all the images(files) in the directory trials,

>> read them into the structure named data, and access each file within

>> the structure.

>

>> pro strcutres

>> dir1='D:\trials'

>> cd,dir1

>> files=FILE_SEARCH('*[^\.{hdr}]', /QUOTE,count=numfiles)

>> i=0

>> while i lt numfiles do begin

>> named=files(i)

>> print,named

>> data={ID:'a',sizes:fltarr(2179,761)}

>> data=replicate(data,numfiles)

>> data.sizes=findgen(numfiles)

>> openr,1,named

>> readu,1,data[i].sizes

>> close,1

>> i=i+1

>> endwhile

>> end

>

>> ERROR message- READU: Expression must be named variable in this

>> context: <FLOAT Array[2179, 761]>.

>

>> I am getting the error here because it seems like i am not able to

>> read in the LUN 1 or named, into data[i].sizes.

>

>> Where am i going wrong ?

>

>> Raghu

>

> Hoo boy - here you go.

>

```

> 1-Yes, you need to use a named variable to readu
> 2-You already defined "sizes" (weird name, by the way, how about
> "values"), when you made the structure.
>
> How about this:
>
> pro strucures
> dir1='D:\trials'
> cd,dir1
> files=FILE_SEARCH('*[^\.]{hdr}'], /QUOTE,count=numfiles)
>
> data={ID:'a',values:fltarr(2179,761)}
> data=replicate(data,numfiles)
> tempval = fltarr(2179,761)
>
> for i=0L, numfiles-1 do begin
>   named=files(i)
>   print,named
>
>   openr,1,named
>   readu,1,tempval
>   free_lun,1
>   data[i].values = tempval
>
> endfor
>
> return
> end

```

BTW - why do you want to use a structure again? The above code makes all the data.id's = 'a'.

Why can't you just read the data into a matrix? If you want the structure to contain the filename then add data[i].id = named inside the loop.
