Subject: Re: Array subscript for VECTOR must have same size as source expression
Posted by Rohit Deshpande on Sun, 26 Jun 2011 14:22:47 GMT
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On Jun 24, 3:27 pm, Paolo <pgri...@gmail.com> wrote:
> Well,
>
> this is a typical errors that you will encounter many times
> in your idl career.
>
> The line
>
> all_barytimes[i,*] = im.BARYTIME
>
> tries to assign a variable im.BARYTIME into an array all_barytimes,
> specifically into a particular column of the array.
>
> The error specifies that im.BARYTIME does not fit into
> all_barytimes[i,*]
> (likely because it has a different number of elements and/or
> dimensions).
>
> Here's an example showing the problem
>
> IDL> a=fltarr(4,4)
> IDL> b=fltarr(5)
> IDL> a[1,*]=b
> % Array subscript for A must have same size as source expression.
> % Execution halted at: $MAIN$
>
> see? can't fit the 5 elements of b into a column of a.
>
> Ciao,
> Paolo
>
> On Jun 24, 11:27 am, Rohit Deshpande <singlebin...@gmail.com> wrote:
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>
>> Hello Everyone,
>
>> I am a beginner in IDL and I have been working on a project. I explain
>> it below:

>
>> 1. The Idea: Read a bunch of FITS files in IDL. They have structure so
>> I use MRDFITS. I would like to read each one of them in a separate
>> variable and plot them. Given that each file has X by Y dimension,
>> where X is always = 19 while Y changes but is mostly 1636.
>
>> 2. The Code:
>
>> im = fltarr(n)
>> all_barytimes = dblarr(19,4000)
>> all_normflux = dblarr(19,4000)
>
>> FOR i = 0, n-1 DO BEGIN
>> ; where filenames are the list of fits files I am reading
>> it.
>> im = mrdfits(file+'raw_test/'+string(filenames[i]),1,head)
>> all_barytimes[i,*] = im.BARYTIME
>> all_normflux[i,*] = im.AP_CORR_FLUX
>> ENDFOR
>
>> 3. The Error:
>
>> IDL> lcs1
>> % READCOL: 21 valid lines read
>> MRDFITS: Binary table. 19 columns by 1639 rows.
>> % Array subscript for ALL_BARYTIMES must have same size as source
>> expression.
>> % Execution halted at: LCS1
>
>> Please let me know how to make it work.
>
>> Thanks!

Thank you so much. I have now created a double array outside the FOR
loop in the following way. This help and I have no errors:

```
all_barytimes = dblarr(n,4450)
all_normflux = dblarr(n,4450)

FOR i = 0, n-1 DO BEGIN
 im =  mrdfits(file+'raw_test/'+string(filenames[i]+'.fits'),1,head )
 arrayend=n_elements(im.BARYTIME)-1
   all_barytimes[i,0:arrayend] = im.BARYTIME
 all_normflux[i,0:arrayend] = im.AP_CORR_FLUX
```