
Subject: Array subscript for ARRAY must have same size as source expression

Posted by [g.nacarts](#) on Fri, 27 Mar 2015 11:36:36 GMT

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Hello

I have the following code:

```
ArrayNEW = ArrayDATA
```

```
FOR i=0, n-1 do begin
```

```
  A1[i, *, *] = A1_tmp
```

```
  A2[i, *, *] = A2_tmp
```

```
ArrayNEW[i, *, *] = calculate(A1_tmp, A2_tmp, ArrayDATA[i, *, *])
```

```
endfor
```

The dimensions of the arrays are as follow:

```
A1_tmp  FLOAT  = Array[120, 4, 4]
```

```
A2_tmp  FLOAT  = Array[120, 4, 4]
```

```
ArrayDATA  FLOAT  = Array[120, 216, 216]
```

```
ArrayNEW  FLOAT  = Array[120, 216, 216]
```

calculate - it's a function which takes those arguments and interpolate the A1_tmp, A2_tmp to have the same dimensions as ArrayDATA.

As I send these arguments to the function why they should have the same dimensions?

Subject: Re: Array subscript for ARRAY must have same size as source expression

Posted by [wlandsman](#) on Fri, 27 Mar 2015 12:59:29 GMT

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You don't say at which line the error is occurring, or at which line you are displaying the data sizes. Certainly one suspicious place is

```
> A1[i, *, *] = A1_tmp
```

where A1_tmp FLOAT = Array[120, 4, 4]

So you are trying to assign all 3 dimensions of A1_tmp into the last two dimensions of A1. Maybe you wanted subscripts for A1_tmp ? --Wayne

On Friday, March 27, 2015 at 7:36:41 AM UTC-4, g.na...@gmail.com wrote:

```
> Hello
```

```
>
```

```
> I have the following code:
```

```
>
```

```
> ArrayNEW = ArrayDATA
>
> FOR i=0, n-1 do begin
>   A1[i,*,*] = A1_tmp
>   A2[i,*,*] = A2_tmp
>   ArrayNEW[i,*,*] = calculate(A1_tmp,A2_tmp,ArrayDATA[i,*,*])
> endfor
>
> The dimensions of the arrays are as follow:
> A1_tmp  FLOAT   = Array[120, 4, 4]
> A2_tmp  FLOAT   = Array[120, 4, 4]
> ArrayDATA  FLOAT = Array[120, 216, 216]
> ArrayNEW  FLOAT = Array[120, 216, 216]
>
> calculate - it's a function which takes those arguments and interpolate the A1_tmp,A2_tmp to
have the same dimensions as ArrayDATA.
>
> As I send these arguments to the function why they should have the same dimensions?
```

Subject: Re: Array subscript for ARRAY must have same size as source expression
Posted by [g.nacarts](#) on Fri, 27 Mar 2015 13:24:06 GMT
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Yeah, you are right. No the error is occurring in this line

```
ArrayNEW[i,*,*] = calculate(A1_tmp,A2_tmp,ArrayDATA[i,*,*])
```

Subject: Re: Array subscript for ARRAY must have same size as source expression
Posted by [wlandsman](#) on Fri, 27 Mar 2015 15:56:27 GMT
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On Friday, March 27, 2015 at 9:24:07 AM UTC-4, g.na...@gmail.com wrote:

```
> Yeah, you are right. No the error is occurring in this line
>
> ArrayNEW[i,*,*] = calculate(A1_tmp,A2_tmp,ArrayDATA[i,*,*])
```

Have you checked that the calculate() function is doing what you think it is doing?, i.e. after the program crashes,

```
help, calculate(A1_tmp,A2_tmp,ArrayDATA[i,*,*])
```
