
Subject: Re: Make_array() and using arrays as subscripts

Posted by [btt](#) on Mon, 09 Jan 2006 21:19:03 GMT

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Sheldon wrote:

> Hi everyone,
>
> I have a problem with the function MAKE_ARRAY() that I hope someone can
> help me with.
> I created a string array with the dimension (3, 344) and performed some
> basic assignment operations.
> Now I know that when I am finished with the operations I will perform
> on the array, the length 344 will be too long. Let's say that only the
> first 120 elements will be needed. Now I assigned that entire array the
> string '9999' and then when I am ready to reduce the size of the array
> I used the WHERE() function to find the indices where each element is
> not equal to '9999'. All went well until I form this array-as-subscript
> operation:
>
> my_array = my_array[good_indices]
>
> The dimensions all disappear and all I get is an array with the
> elements equalling the number of elements of good_indices, i.e.,
>
> print, size(my_array,/dimensions)
>
> IDL> 120
>
> Now I have used this type of array-as-subscript before on other types
> of array and I have never had this problem before. Does anyone know why
> this happens or how can I cut my_array without losing my 3 dimensions?
>

Hi,

You will want to keep tabs on the dimension(s) that WHERE operates since a call to WHERE operates on the entire array unless restricted. For the sake of simplicity you might try a loop. You haven't said if the 99999 flag could be in any one of the columns. If true then you must check each column for the 99999 flag.

```
dims = SIZE(my_array, /DIM)
flag = MAKE_ARRAY(dims[1], VALUE = 0B)
```

```
For i = 0L, dims[0]-1 Do Begin
```

```
  A = WHERE(my_array[i,*] NE 9999, nA) ;check the ith column
```

```
if nA GT 0 then flag[A] = flag[A] + 1B ;increment the ok values
```

```
EndFor
```

```
;any flag LT 3 must have had a 99999 somewhere
```

```
A = WHERE(flag EQ 3B, nA)
```

```
if nA GT 0 then my_array = my_array[*,A]
```

Hope that helps,

Ben

PS In about 2 minutes you'll hear a chorus of other (better) methods from people more knowledgeable than I about these things.
