Subject: Re: Manipulation using where
Posted by Vidhya on Wed, 21 Mar 2007 14:41:51 GMT
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Hi David,

But the problem, I have the row which have an alternate values of zero
and some integers.

0 25695 0 25966 0
27235 0 37145 0 94282
0..... something like this!

So couldnt find with total of all the column elements.

So I tried to specify as to where there are zero.

Any suggestions?

On 21 Mar, 15:19, David Fanning <n...@dfanning.com> wrote:
> Vidhya writes:
>> I have an image, SUBIMAGE LONG = Array[372, 374, 62] and I
>> would like to find all the values equal to zero (basically missing
>> lines/rows). Right, done using
>
>> z = where(subimage(*,*,*) EQ 0, count)
>
>> The result is one-dimensional array: LONG = Array[15457]
>
>> now I would like perform an operation trying to find which row there
>> are in, and find the averages of the rows above and below and
>> replacing them for those found zero values.
>
>> How do I go about this?
>
>> I tried using array_indices, but its bit confusing.
>
> I think you are going about this in the wrong way.
> If a row is missing, all the column values in that
> row are zero. Thus, if you totaled your array over
> the column dimension, you would find the locations
> where all the columns values were zero, since these
> would be zero.
>
> Consider a simple example.
>
> a = Indgen(4, 5, 3)
> a[*,2,1] = 0

```
>    Print, a
>       0       1       2       3
>       4       5       6       7
>       8       9      10      11
>      12      13      14      15
>      16      17      18      19
>
>      20      21      22      23
>      24      25      26      27
>       0       0       0       0
>      32      33      34      35
>      36      37      38      39
>
>      40      41      42      43
>      44      45      46      47
>      48      49      50      51
>      52      53      54      55
>      56      57      58      59
>
>    t = Total(a, 1) ; Total over columns
>    Print, t
>      6.00000      22.0000      38.0000      54.0000      70.0000
>      86.0000      102.000     0.000000      134.000      150.000
>      166.000      182.000      198.000      214.000      230.000
>
>    index = Where(t EQ 0)
>    rowframe = Array_Indices(Size(t,/Dim), index, /Dim)
>    row = rowframe[0] & frame = rowframe[1]
>    Print, row, frame
>           2           1
>
> So, you know that all the column values in row 2, frame 1
> are zero. Now you can do whatever you like with that
> information. :-)
>
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:http://www.dfanning.com/
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")
```